

SAMSUNG

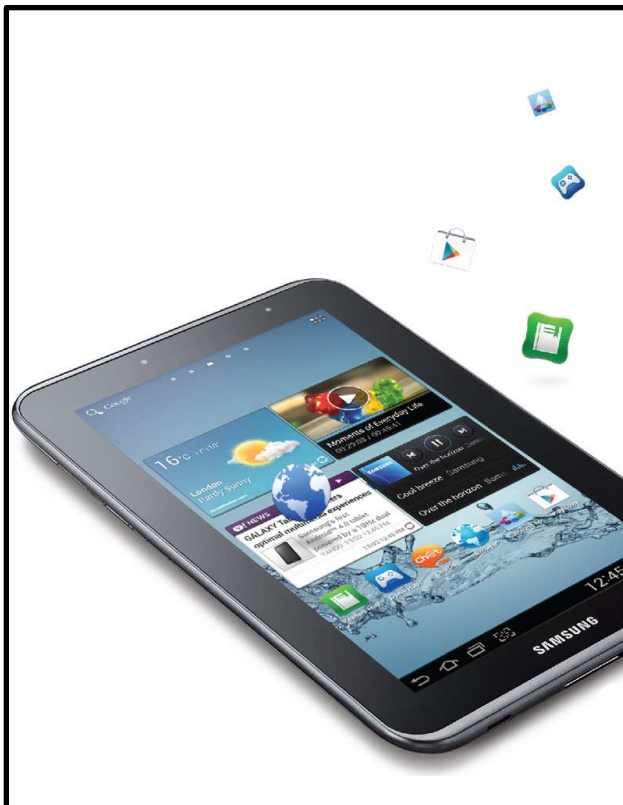
GSM TELEPHONE

GT-P3110

SERVICE *Manual*

GSM TELEPHONE

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Notice: All functionality, features, specifications, and other product information provided in this document, including but not limited to, benefits, design, pricing, components, performance, availability, and capabilities of the product are subject to change without notice. Samsung reserves the right to alter this document or the product described herein at anytime, without obligation to provide notification of such changes.

**SAMSUNG
ELECTRONICS**



3. Operation Instruction and Installation

Main Function

- Android OS: Ice Cream Sandwich(ICS)
- Main 3M FF, VGA
- 7.0" WSGA 16M TFT LCD (PLS_type)
- GPS / BT v3.0 USB v2.0 / WiFi (802.11 b/g/n) / OTG
- Recording definition: 720p / Playback at 1080p resolution
- Sensors: Accelerometer, Electromagnetic, Light
- Additional :
 - 1GHz Dual Core CPU
 - Application store / Precise Motion UI
 - Seamless Sharing Experience.

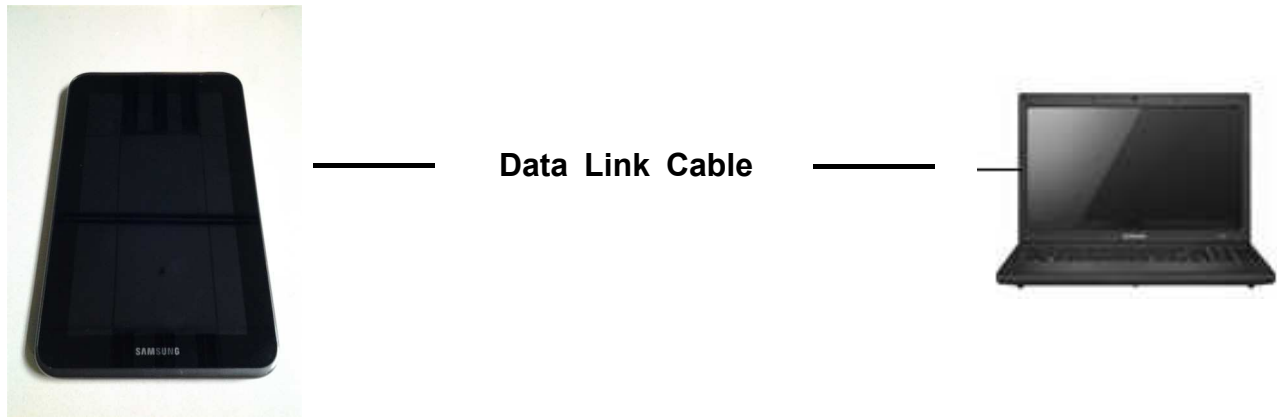
6. Level 1 Repair

6-1. S/W Download

6-1-1. Pre-requisite for S/W Downloading

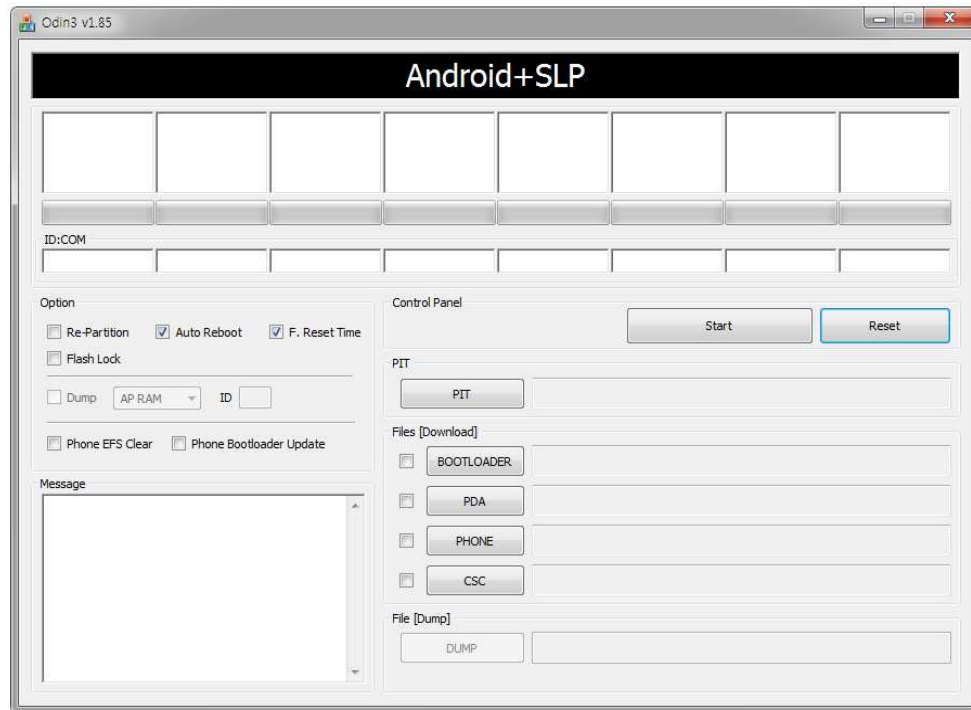
- Downloader Program ([Odin3 v1.85.exe](#))
- GT-P3110 Mobile Phone
- Data Link Cable (GH39-01440H)
- Binary files

❖ Settings



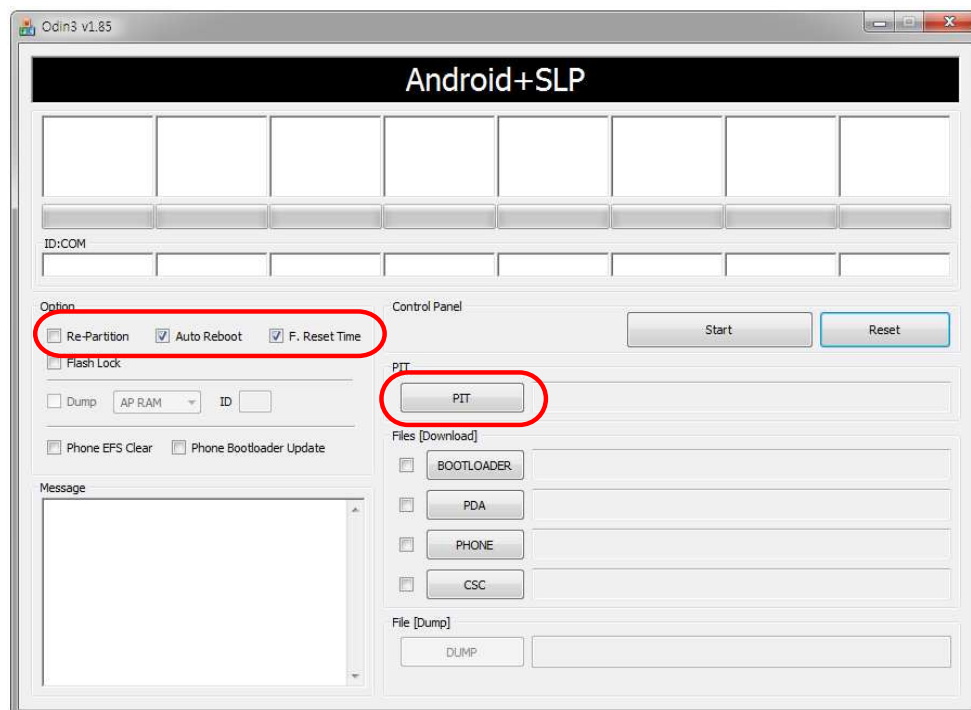
6-1-2. S/W Downloader Program

- Load the binary download program by executing the **"Odin3 v1.85.exe"** ← **Run this file.**



1. Option Selection

- Check Auto Reboot and F. Reset Time, then select PIT File

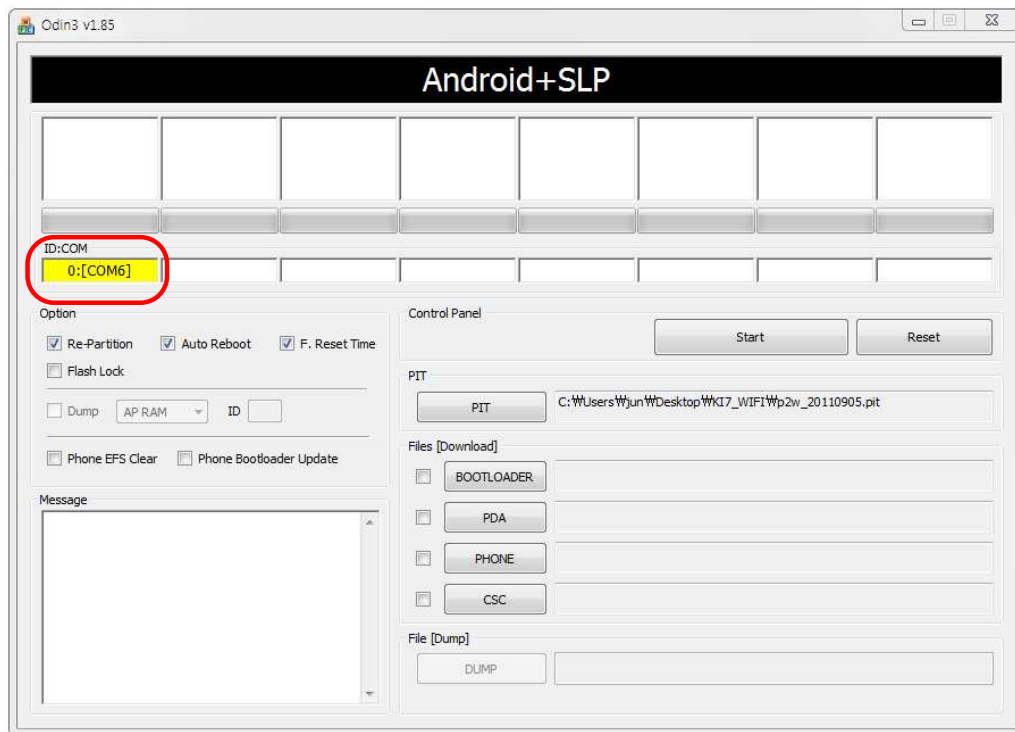


2. Enter Device into Download Mode

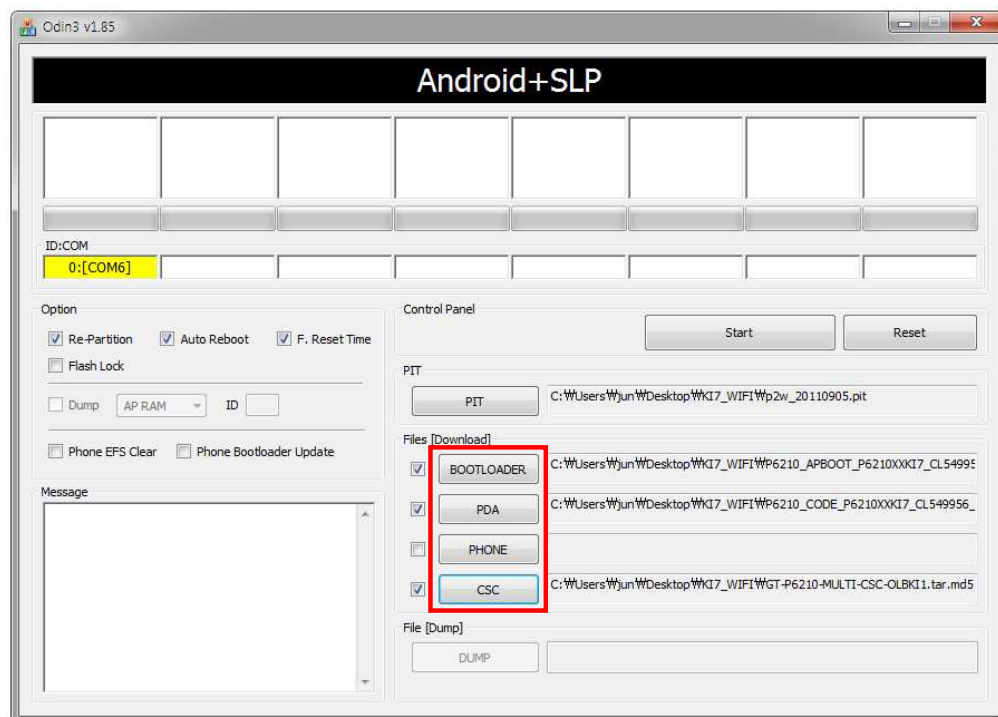
- Press down on Volume Down button and power key at same time for 10 seconds
- Press down on Volume Up button to enter device into download mode



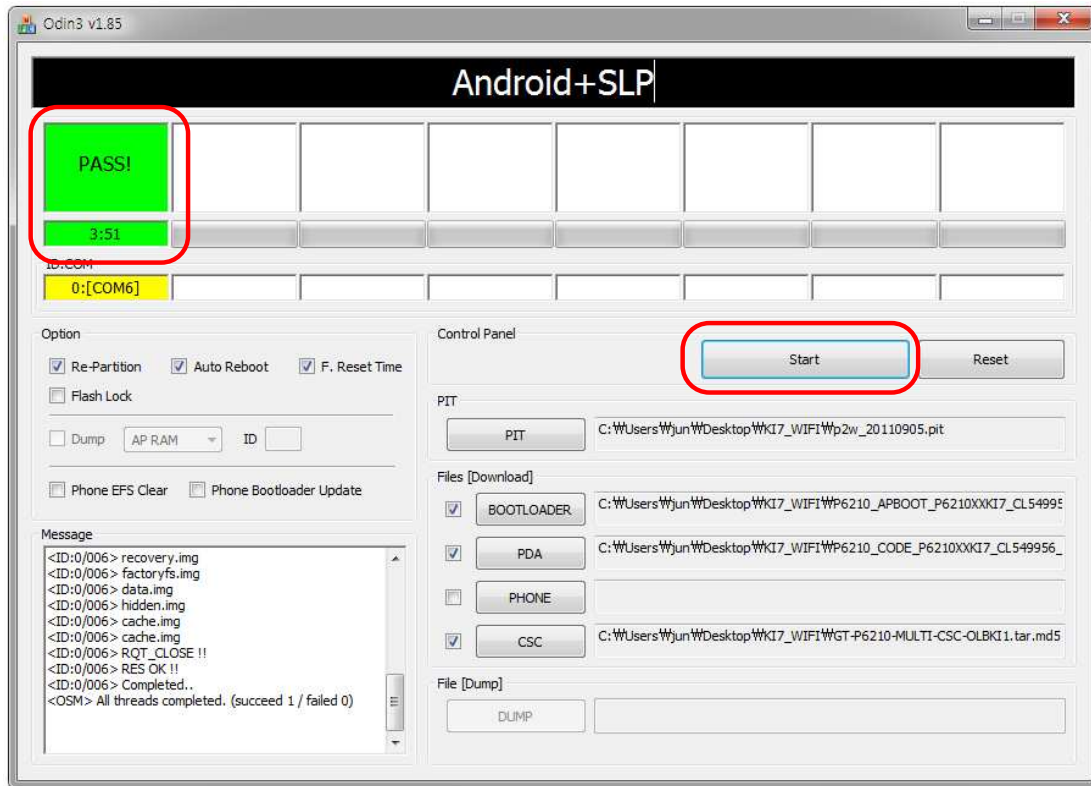
3. Connect the Device to PC via Data Cable.
Make sure ID:COM box highlighted yellow that the device is connected to the PC.



4. Enable the check mark by click on the following options,
- Check BOOTLOADER, PDA and CSC Files



5. Start downloading binary file into the device by clicking Start Button on the screen.
the green colored "PASS!" sign will appear on the upper-left box if the binary file has been successfully downloaded into the device.



6. Disconnect the device from the Data cable.
7. Once the device boots up, confirm the downloaded version name and etc. :
***#1234#**

Full Reset :

***2767*3855#**

9. Reference Abbreviate

Reference Abbreviate

- AAC: AdvancedAudioCoding.
- AVC: AdvancedVideoCoding.
- BER: BitErrorRate
- BPSK: BinaryPhaseShiftKeying
- CA: ConditionalAccess
- CDM: CodeDivisionMultiplexing
- C/I: CarriertoInterference
- DMB: DigitalMultimediaBroadcasting
- E: EuropeanStandard
- ES: ElementaryStream
- ETSI: EuropeanTelecommunicationsStandardsInstitute
- MPEG: MovingPictureExpertsGroup
- PN: Pseudo-randomNoise
- PS: PilotSymbol
- QPSK: QuadraturePhaseShiftKeying
- RS: Reed-Solomon
- SI: ServiceInformation
- TDM: TimeDivisionMultiplexing
- TS: TransportStream

1. Safety Precautions

1-1. Repair Precaution

Before attempting any repair or detailed tuning, shield the device from RF noise or static electricity discharges.

Use only demagnetized tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.

Use only high quality screwdrivers when servicing products. Low quality screwdrivers can easily damage the heads of screws.

Use only conductor wire of the properly gauge and insulation for low resistance, because of the low margin of error of most testing equipment.

We recommend 22-gauge twisted copper wire.

Hand-soldering is not recommended, because printed circuit boards (PCBs) can be easily damaged, even with relatively low heat. Never use a soldering iron with a power rating of more than 100 watts and use only lead-free solder with a melting point below 250°C (482°F).

Prior to disassembling the battery charger for repair, ensure that the AC power is disconnected. Always use the replacement parts that are registered in the SEC system. Third-party replacement parts may not function properly.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

Many semiconductors and ESDs in electronic devices are particularly sensitive to static discharge and can be easily damaged by it. We recommend protecting these components with conductive anti-static bags when you store or transport them.

Always use an anti-static strap or wristband and remove electrostatic buildup or dissipate static electricity from your body before repairing ESDs.

Ensure that soldering irons have AC adapter with ground wires and that the ground wires are properly connected.

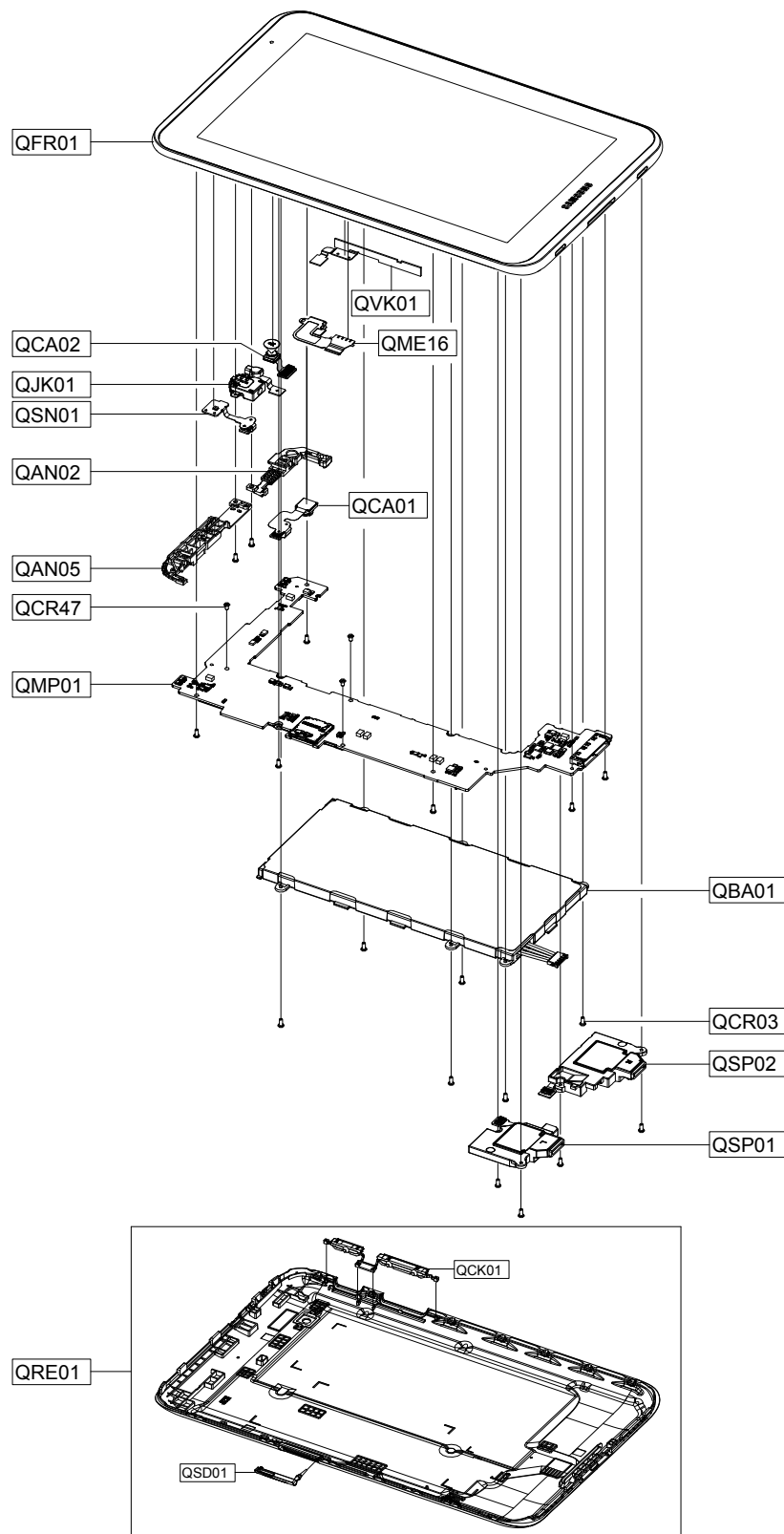
Use only desoldering tools with plastic tips to prevent static discharge.

Properly shield the work environment from accidental electrostatic discharge before opening packages containing ESDs.

The potential for static electricity discharge may be increased in low humidity environments, such as air-conditioned rooms. Increase the airflow to the working area to decrease the chance of accidental static electricity discharges.

4. Exploded View and Parts List

4-1. Cellular phone Exploded View



4-2. Cellular phone Parts list

Design LOC		Description	SEC CODE
QCR47		SCREW-MACHINE	6001-001695
QCR03		SCREW-MACHINE	6001-001811
QAN02		INTENNA-GPS_(GT-P3100)	GH42-03569A
QBA01		BATTERY-4000MAH	GH43-03615A
QME16		UNIT-CON TO CON FPCB	GH59-11578A
QVK01		KEY FPCB-SIDE_(GT-P3100)	GH59-12113A
QCA02		CAMERA MODULE-VGA VT_1/10_SF MIPI(GT-P31	GH59-12126A
QJK01		MODULE-GT_P3100 EARJACK+MIC FPCB	GH59-12128A
QSN01		ASSY ETC-SENSOR FPCB(GT_P3110)	GH59-12129A
QSP01		UNIT-GT-P3110_SPK(L)	GH59-12139A
QSP02		UNIT-GT-P3110_SPK(R)	GH59-12140A
QCA01		CAMERA MODULE-3M_FF_1/5 LSI(GT-P3110)	GH59-12197A
QAN05		DUMMY-MAIN_ANTTENA	GH61-00752A
QMP01		A/S ASSY-PBA MAIN GT-P3110	GH82-06426A
QFR01		ETC ASSY-LCD ASSY(SVC)	GH97-13516A
QRE01		ASSY CASE-REAR_WIFI_AS	GH98-23237A
	QSD01	COVER-SD_V4	GH63-00655A
	QCK01	KEY-SIDE_V2_1	GH64-00352A

5. MAIN Electrical Parts List

SEC CODE	Design LOC	Description
0403-001688	D504,ZD501,ZD701	DIODE-ZENER
0406-001239	D500,D501,D502,D503	DIODE-TVS
0406-001267	ZD500,ZD700	DIODE-TVS
0406-001375	ZD502,ZD503,ZD504	DIODE-TVS
0406-001375	ZD505,ZD506,ZD800	DIODE-TVS
0406-001413	ZD900,ZD901	DIODE-TVS
0406-001506	ZD402,ZD403,ZD404	DIODE-TVS
0406-001506	ZD405	DIODE-TVS
0407-001002	D700	DIODE-ARRAY
0504-001113	TR700,TR702,TR703	TR-DIGITAL
0504-001171	TR500	TR-DIGITAL
0505-001518	Q800	FET-SILICON
0505-002720	TR701	FET-SILICON
0505-002748	TR704,TR705	FET-SILICON
0505-003052	U703	FET-SILICON
0801-003031	U609	IC-ANALOG SWITCH
0801-003079	U606,U608	IC-ANALOG SWITCH
0902-002849	UCP600	IC-MICROPROCESSOR
0903-001762	U900	IC-TOUCH IC
1001-001410	U405	IC-ANALOG SWITCH
1001-001481	U504,U505	IC-USB SWITCH IC
1003-002132	U503	IC-LEVEL DRIVER
1003-002216	U601,U602,U603	IC-LEVEL DRIVER
1107-002134	U607	IC-FLASH
1201-003378	U200	IC-GPS LNA
1202-001121	U500	IC-ANALOG SWITCH
1202-001123	U401	IC-COMPARATOR
1203-004776	U803	IC-DC/DC CONVERTER
1203-004818	U605	IC-DC/DC CONVERTER
1203-004819	U403,U700,U901	IC-DC/DC CONVERTER
1203-005069	U707	IC-DC/DC CONVERTER
1203-005396	U404	IC-DC/DC CONVERTER
1203-005521	U705	IC-DC/DC CONVERTER
1203-006115	U913	IC-POWER SUPERVISOR
1203-006346	U704	IC-RESET IC
1203-006392	U702	IC-FUELGAUGE

SEC CODE	Design LOC	Description
1203-006493	U706	IC-POWER SUPERVISOR
1203-006766	U502	IC-SWITCH
1203-006794	U501	IC-POWER SUPERVISOR
1203-006817	U904	IC-DC/DC CONVERTER
1203-006986	U800	IC-DC/DC CONVERTER
1203-007142	U604	IC-DC/DC CONVERTER
1203-007210	U701	IC-POWER SUPERVISOR
1205-003692	U400	IC-ADC IC
1205-004004	U805	IC-DC/DC CONVERTER
1205-004313	U801	IC-TRANSMITTER
1205-004396	U201	IC-GPS
1205-004402	U203	IC-Wifi
1205-004509	U406	IC-CODEC
1209-002085	U902	IC-SENSOR
1209-002106	U903	IC-SENSOR
1404-001728	TH700	THERMISTOR
1405-001091	VAR402,VAR403	VARISTOR
1405-001346	VAR700	VARISTOR
2007-000138	R421,R628,R629	R-CHIP
2007-000140	R532,R533	R-CHIP
2007-000141	R419,R635,R636,R670	R-CHIP
2007-000141	R671	R-CHIP
2007-000143	R720,R729,R901,R912	R-CHIP
2007-000143	R913	R-CHIP
2007-000147	R907	R-CHIP
2007-000148	R322,R608,R609,R614	R-CHIP
2007-000148	R615,R672,R691,R693	R-CHIP
2007-000148	R717,R726,R728	R-CHIP
2007-000155	R721	R-CHIP
2007-000157	R209,R210,R211,R212	R-CHIP
2007-000157	R213,R500,R503,R504	R-CHIP
2007-000157	R505,R506,R507	R-CHIP
2007-000162	R402,R524,R534,R657	R-CHIP
2007-000162	R658,R664,R690,R704	R-CHIP
2007-000162	R708,R711,R722,R727	R-CHIP
2007-000162	R810	R-CHIP

SEC CODE	Design LOC	Description
2007-000163	R512,R513	R-CHIP
2007-000164	R516,R517	R-CHIP
2007-000167	R508	R-CHIP
2007-000170	R420,R515	R-CHIP
2007-000172	R825	R-CHIP
2007-000173	R684,R900	R-CHIP
2007-001217	R502	R-CHIP
2007-001292	R630,R689,R694,R695	R-CHIP
2007-001295	R801,R802,R803,R804	R-CHIP
2007-001295	R805,R806,R807,R808	R-CHIP
2007-001295	R809	R-CHIP
2007-001298	R404,R520,R521	R-CHIP
2007-001306	R731	R-CHIP
2007-003015	R529,R530	R-CHIP
2007-007014	R673,R674,R675,R676	R-CHIP
2007-007014	R677,R678,R679,R680	R-CHIP
2007-007014	R681	R-CHIP
2007-007092	R531	R-CHIP
2007-007099	R525	R-CHIP
2007-007131	R824	R-CHIP
2007-007132	R208	R-CHIP
2007-007137	R410,R414,R416	R-CHIP
2007-007142	R526,R527,R528	R-CHIP
2007-007156	R422,R423	R-CHIP
2007-007195	R909,R911	R-CHIP
2007-007312	R424,R823	R-CHIP
2007-007318	R409,R412,R418	R-CHIP
2007-007517	R687,R688	R-CHIP
2007-007529	R509	R-CHIP
2007-007538	R661	R-CHIP
2007-007573	R510	R-CHIP
2007-007700	R407	R-CHIP
2007-007875	R405	R-CHIP
2007-007942	R403	R-CHIP
2007-008045	R626,R627,R638,R639	R-CHIP
2007-008045	R735	R-CHIP

SEC CODE	Design LOC	Description
2007-008055	R430,R709,R902	R-CHIP
2007-008211	R518,R519,R903,R919	R-CHIP
2007-008275	R511	R-CHIP
2007-008354	R656	R-CHIP
2007-008403	R501	R-CHIP
2007-008483	R522,R523,R712	R-CHIP
2007-008502	R406	R-CHIP
2007-008516	R643,R644,R813,R817	R-CHIP
2007-008516	R904	R-CHIP
2007-008579	R207	R-CHIP
2007-008588	R400,R625,R637,R669	R-CHIP
2007-008588	R685,R686	R-CHIP
2007-008774	R634,R908	R-CHIP
2007-009108	R668	R-CHIP
2007-009155	R667	R-CHIP
2007-009233	R701	R-CHIP
2007-009314	R733,R734	R-CHIP
2007-009354	R600,R617	R-CHIP
2007-010509	R713	R-CHIP
2007-010856	R736	R-CHIP
2203-000233	C206,C235,C236	C-CERAMIC,CHIP
2203-000254	C747,C802	C-CERAMIC,CHIP
2203-000278	C231,C232,C234,C239	C-CERAMIC,CHIP
2203-000278	C240,C241,C242,C244	C-CERAMIC,CHIP
2203-000278	C247,C825	C-CERAMIC,CHIP
2203-000386	C436,C437	C-CERAMIC,CHIP
2203-000425	C439,C443,C444	C-CERAMIC,CHIP
2203-000438	C233	C-CERAMIC,CHIP
2203-000585	C228,C695	C-CERAMIC,CHIP
2203-000696	C210	C-CERAMIC,CHIP
2203-001153	C431,C438	C-CERAMIC,CHIP
2203-001239	C440,C441,C442,C924	C-CERAMIC,CHIP
2203-001239	C925	C-CERAMIC,CHIP
2203-001437	C238	C-CERAMIC,CHIP
2203-002687	C746	C-CERAMIC,CHIP
2203-002709	C211	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-005395	C248	C-CERAMIC,CHIP
2203-005725	C214	C-CERAMIC,CHIP
2203-005727	C224,C715,C716,C912	C-CERAMIC,CHIP
2203-005729	C222,C429	C-CERAMIC,CHIP
2203-005732	C432	C-CERAMIC,CHIP
2203-005736	C200,C250	C-CERAMIC,CHIP
2203-005806	C203	C-CERAMIC,CHIP
2203-006048	C220,C221,C223,C243	C-CERAMIC,CHIP
2203-006048	C507,C508,C607,C612	C-CERAMIC,CHIP
2203-006048	C651,C654,C668,C684	C-CERAMIC,CHIP
2203-006048	C685,C748,C932	C-CERAMIC,CHIP
2203-006190	C655,C691,C693,C694	C-CERAMIC,CHIP
2203-006190	C731	C-CERAMIC,CHIP
2203-006194	C216	C-CERAMIC,CHIP
2203-006348	C513	C-CERAMIC,CHIP
2203-006399	C411,C416,C619,C620	C-CERAMIC,CHIP
2203-006399	C666,C675,C689,C724	C-CERAMIC,CHIP
2203-006423	C204,C402,C407,C601	C-CERAMIC,CHIP
2203-006423	C602,C603,C604,C606	C-CERAMIC,CHIP
2203-006423	C608,C609,C611,C613	C-CERAMIC,CHIP
2203-006423	C614,C621,C622,C625	C-CERAMIC,CHIP
2203-006423	C626,C627,C630,C631	C-CERAMIC,CHIP
2203-006423	C632,C634,C635,C636	C-CERAMIC,CHIP
2203-006423	C637,C638,C640,C641	C-CERAMIC,CHIP
2203-006423	C642,C649,C652,C653	C-CERAMIC,CHIP
2203-006423	C661,C662,C663,C664	C-CERAMIC,CHIP
2203-006423	C667,C669,C670,C671	C-CERAMIC,CHIP
2203-006423	C678,C682,C909,C910	C-CERAMIC,CHIP
2203-006423	C915	C-CERAMIC,CHIP
2203-006562	C226,C400,C401,C413	C-CERAMIC,CHIP
2203-006562	C415,C505,C506,C510	C-CERAMIC,CHIP
2203-006562	C600,C688,C723,C743	C-CERAMIC,CHIP
2203-006562	C749,C803,C804,C805	C-CERAMIC,CHIP
2203-006562	C900,C901,C902,C903	C-CERAMIC,CHIP
2203-006562	C905,C907,C919,C920	C-CERAMIC,CHIP
2203-006681	C753,C823	C-CERAMIC,CHIP

SEC CODE	Design LOC	Description
2203-006824	C729,C732	C-CERAMIC,CHIP
2203-006839	C215,C679,C683,C714	C-CERAMIC,CHIP
2203-006839	C921	C-CERAMIC,CHIP
2203-006841	C701	C-CERAMIC,CHIP
2203-006844	C623	C-CERAMIC,CHIP
2203-006872	C201,C202,C212,C213	C-CERAMIC,CHIP
2203-006872	C403,C425,C427,C428	C-CERAMIC,CHIP
2203-006872	C690,C703,C704,C708	C-CERAMIC,CHIP
2203-006872	C709,C713,C754	C-CERAMIC,CHIP
2203-006979	C207,C751	C-CERAMIC,CHIP
2203-007133	C511,C733	C-CERAMIC,CHIP
2203-007210	C628,C629,C633,C656	C-CERAMIC,CHIP
2203-007210	C657,C658,C659,C660	C-CERAMIC,CHIP
2203-007210	C665,C673,C674	C-CERAMIC,CHIP
2203-007240	C686,C734	C-CERAMIC,CHIP
2203-007269	C744	C-CERAMIC,CHIP
2203-007270	C741,C742,C817	C-CERAMIC,CHIP
2203-007271	C205,C230,C702,C705	C-CERAMIC,CHIP
2203-007271	C707,C710,C756,C800	C-CERAMIC,CHIP
2203-007271	C815,C816,C906,C908	C-CERAMIC,CHIP
2203-007271	C911,C913,C929,C930	C-CERAMIC,CHIP
2203-007271	C931,C933,C934,C936	C-CERAMIC,CHIP
2203-007279	C725,C726,C735,C736	C-CERAMIC,CHIP
2203-007279	C737,C738,C739,C740	C-CERAMIC,CHIP
2203-007317	C218,C219,C229,C504	C-CERAMIC,CHIP
2203-007342	C706,C824	C-CERAMIC,CHIP
2203-007391	C605,C610,C624,C650	C-CERAMIC,CHIP
2203-007392	C717	C-CERAMIC,CHIP
2203-007393	C217,C227,C617,C618	C-CERAMIC,CHIP
2203-007393	C639,C647,C648,C687	C-CERAMIC,CHIP
2203-007393	C700,C718,C719,C720	C-CERAMIC,CHIP
2203-007393	C721,C722,C752	C-CERAMIC,CHIP
2203-007449	C643,C644,C672,C676	C-CERAMIC,CHIP
2203-007449	C696,C697,C730,C914	C-CERAMIC,CHIP
2203-007449	C916,C917,C918,C926	C-CERAMIC,CHIP
2203-007449	C927,C928,C935	C-CERAMIC,CHIP






SEC CODE	Design LOC	Description
2203-007474	C246,C512	C-CERAMIC,CHIP
2203-007634	C509	C-CERAMIC,CHIP
2203-007693	C727,C728	C-CERAMIC,CHIP
2203-007755	C245	C-CERAMIC,CHIP
2203-007775	C404,C405,C406,C410	C-CERAMIC,CHIP
2203-007775	C419,C692,C711,C712	C-CERAMIC,CHIP
2203-007775	C755	C-CERAMIC,CHIP
2203-007781	C500,C501,C502,C503	C-CERAMIC,CHIP
2203-007795	C615,C616,C645,C646	C-CERAMIC,CHIP
2203-007796	C408,C409,C417,C418	C-CERAMIC,CHIP
2203-007796	C422,C423,C424,C426	C-CERAMIC,CHIP
2203-007840	C801	C-CERAMIC,CHIP
2404-001561	TA400,TA402	C-TA,CHIP
2703-001737	L211	INDUCTOR-SMD
2703-002649	L214	INDUCTOR-SMD
2703-003533	L600	INDUCTOR-SMD
2703-003545	L212	INDUCTOR-SMD
2703-003687	L500	INDUCTOR-SMD
2703-003754	L901	INDUCTOR-SMD
2703-003911	L700,L701,L702,L703	INDUCTOR-SMD
2703-003911	L704	INDUCTOR-SMD
2703-004088	L207	INDUCTOR-SMD
2703-004225	L705	INDUCTOR-SMD
2801-004551	OSC700	CRYSTAL-UNIT
2801-005107	OSC201	CRYSTAL-UNIT
2804-001884	OSC600	OSCILLATOR-CLOCK
2804-001935	OSC400	OSCILLATOR-CLOCK
2809-001374	OSC200	OSCILLATOR-VCTCXO
2901-001674	F800,F801,F802,F900	FILTER-EMI
2901-001674	F901	FILTER-EMI
2904-001988	F200	FILTER-SAW
2909-001307	F201	FILTER-DUPLEXER
2911-000168	U202	FILTER
3301-001659	L201	CORE-FERRITE
3301-001885	L403,L404,L406,L407	CORE-FERRITE
3301-001885	L408,L409,L410	CORE-FERRITE

SEC CODE	Design LOC	Description
3301-001895	L200,L205,L206	CORE-FERRITE
3301-001901	L900	CORE-FERRITE
3301-001929	L400,L401	CORE-FERRITE
3301-001956	L804	CORE-FERRITE
3301-002066	L902	CORE-FERRITE
3301-002085	L203,L204	CORE-FERRITE
3709-001575	CD500	CONNECTOR-CARD
3710-003319	IFC500	CONNECTOR-SOCKET
3711-005618	HDC902	CONNECTOR-HEADER
3711-006615	HDC400,HDC401,HDC800	CONNECTOR-HEADER
3711-006615	HDC901,HEA400	CONNECTOR-HEADER
3711-006852	HDC900,HDC903	CONNECTOR-HEADER
3711-006882	HDC801	CONNECTOR-HEADER
3711-007173	HDC600	CONNECTOR-HEADER
3711-007494	CON700	CONNECTOR-HEADER
3712-001348	ANT202	CONNECTOR
3712-001375	ANT200,ANT201	CONNECTOR
GH62-00019A	CON100,CON101,CON102	SMR-TS-3-1.5-2
GH62-00019A	CON103,CON104,CON105	SMR-TS-3-1.5-2
GH62-00019A	CON106	SMR-TS-3-1.5-2
GH70-07744A	SC200	SHIELDCAN-P2-GPS-1
GH98-21816A	SC201	SHIELDCAN-P2-WIFI

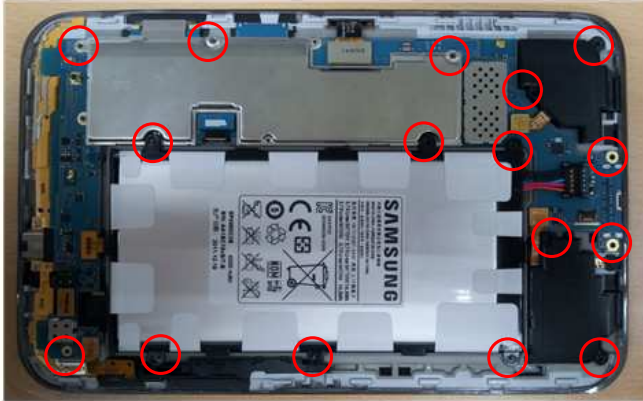
7. Level 2 Repair

7-1. Disassembly and assembly Instructions

7-1-1. Disassembly

<div data-bbox="186 346 779 441">1 Disassemble the rear cover with the front cover by using the hook</div>  <p data-bbox="332 861 592 913">○ : Hook (24 Point)</p> 	<div data-bbox="828 346 1404 441">2 Put the disassemble jig as shown in the picture below. And disassemble hooks in regular sequence.</div> 
<p>Be careful not to scratch cover. Follow the numbered sequence when you disjoint</p>	<p>Be careful not to scratch cover. Follow the numbered sequence when you disjoint</p>
<div data-bbox="170 1186 787 1239">3 Disassemble the rest of the hooks.</div> 	<div data-bbox="836 1186 1469 1344">4 Put your hand has opened between the front assy and the rear cover. First, disassemble the hooks in the direction of IF connector. And then disassemble all the remain hooks.</div> 
<p>Be careful not to scratch cover. Follow the numbered sequence when you disjoint</p>	<p>Be careful not to scratch cover. Follow the numbered sequence when you disjoint</p>

- 5** Carefully release the screws at 16 different locations from the Front.
(L1.4*3.0, Torque 0.9 ~ 1.0 kgf.cm)



Be careful not to scratch cover

- 6** Separate the Speaker, Battery from the PBA.



Be careful not to damage the FPCBs
Be careful not to damage the wires

- 7** Separate IF Connector, TSP, LCD, 3M Camera, VGA Camera, Volume Key, Earjack FPCBs from the PBA



Be careful not to damage the FPCBs

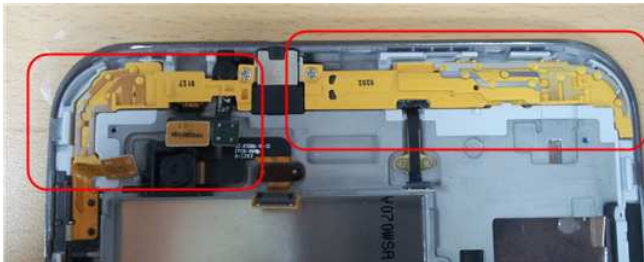
- 8** Separate PBA from the Front.



Be careful not to scratch cover

9

Separate the Antenna, 3M Camera, Earjack, Volume FPCB, VGA Camera, Sensor FPCB from the Front.

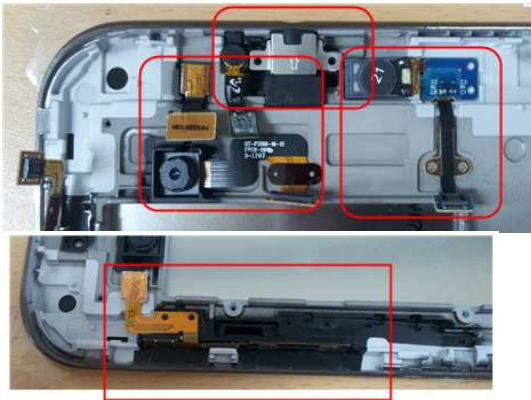


Be careful not to damage the FPCBs

7-1-2. assemble

1

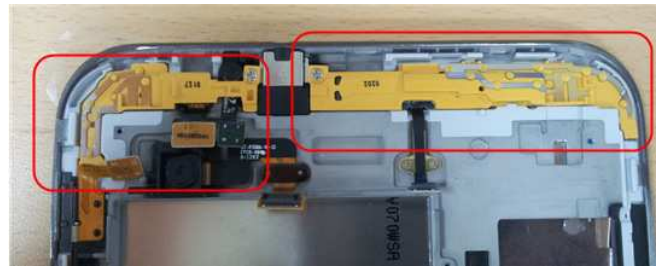
Assemble the 3M Camera, Earjack, Volume FPCB, VGA Camera, Sensor FPCB



Be careful not to damage the FPCBs

2

Assemble the Antenna



Be careful not to damage the FPCBs

3

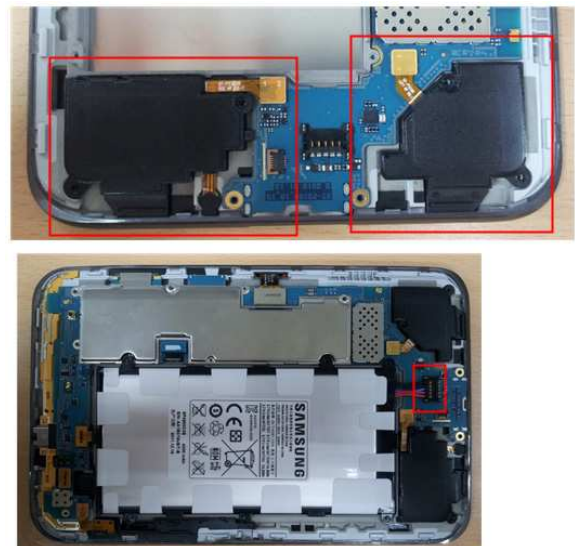
Assemble PBA and all Connectors



Be careful not to damage the FPCBs

4

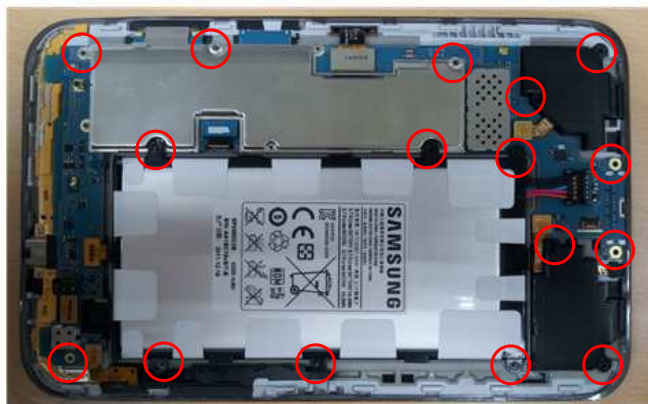
Assemble the Speakers Battery



Be careful not to damage the FPCBs

5

Screw at 16 point
(L1.4*3.0, Torque 0.9 ~ 1.0 kgf.cm)



Be careful not to damage the FPCBs

6

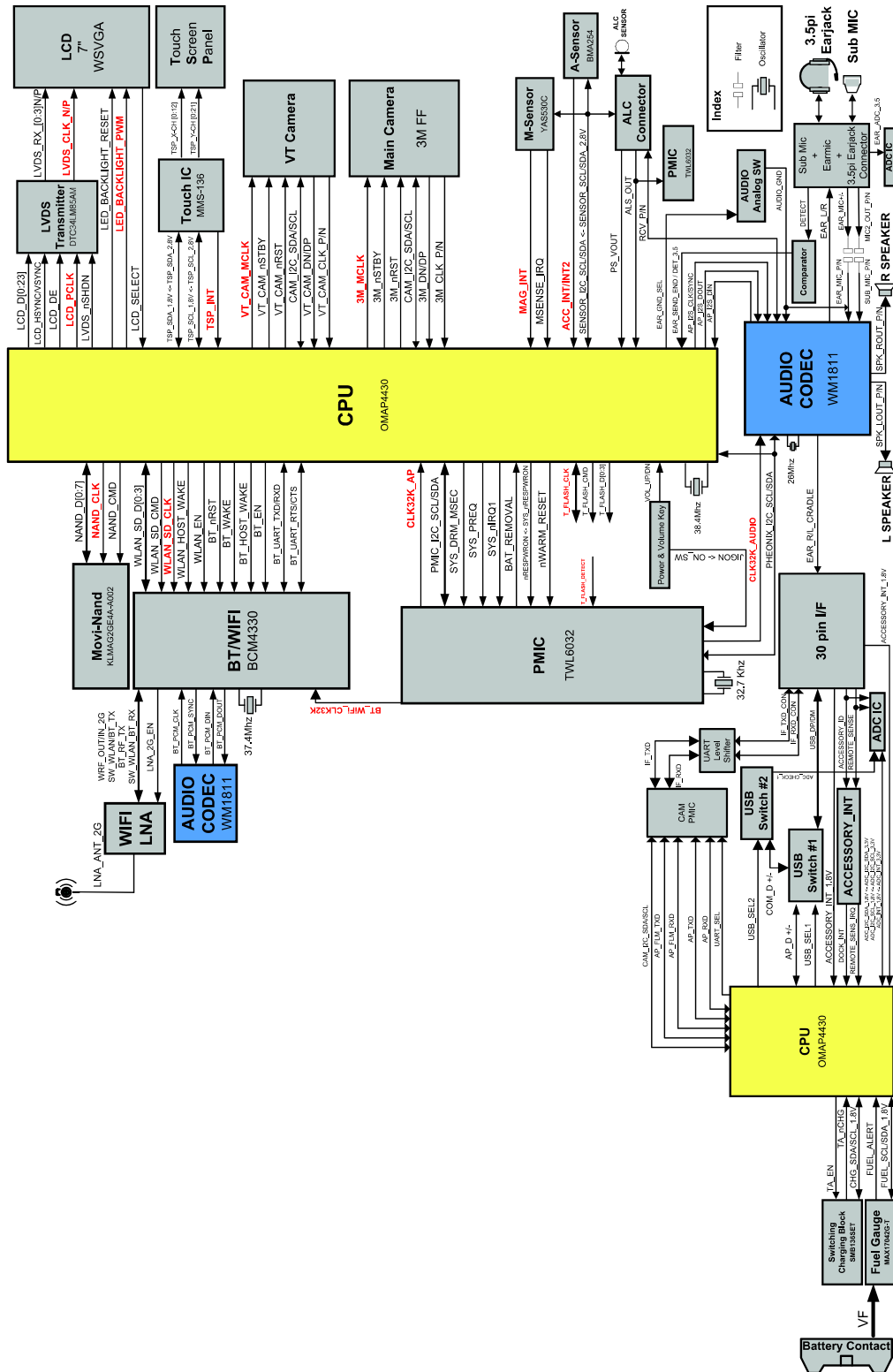
Assemble the Rear.

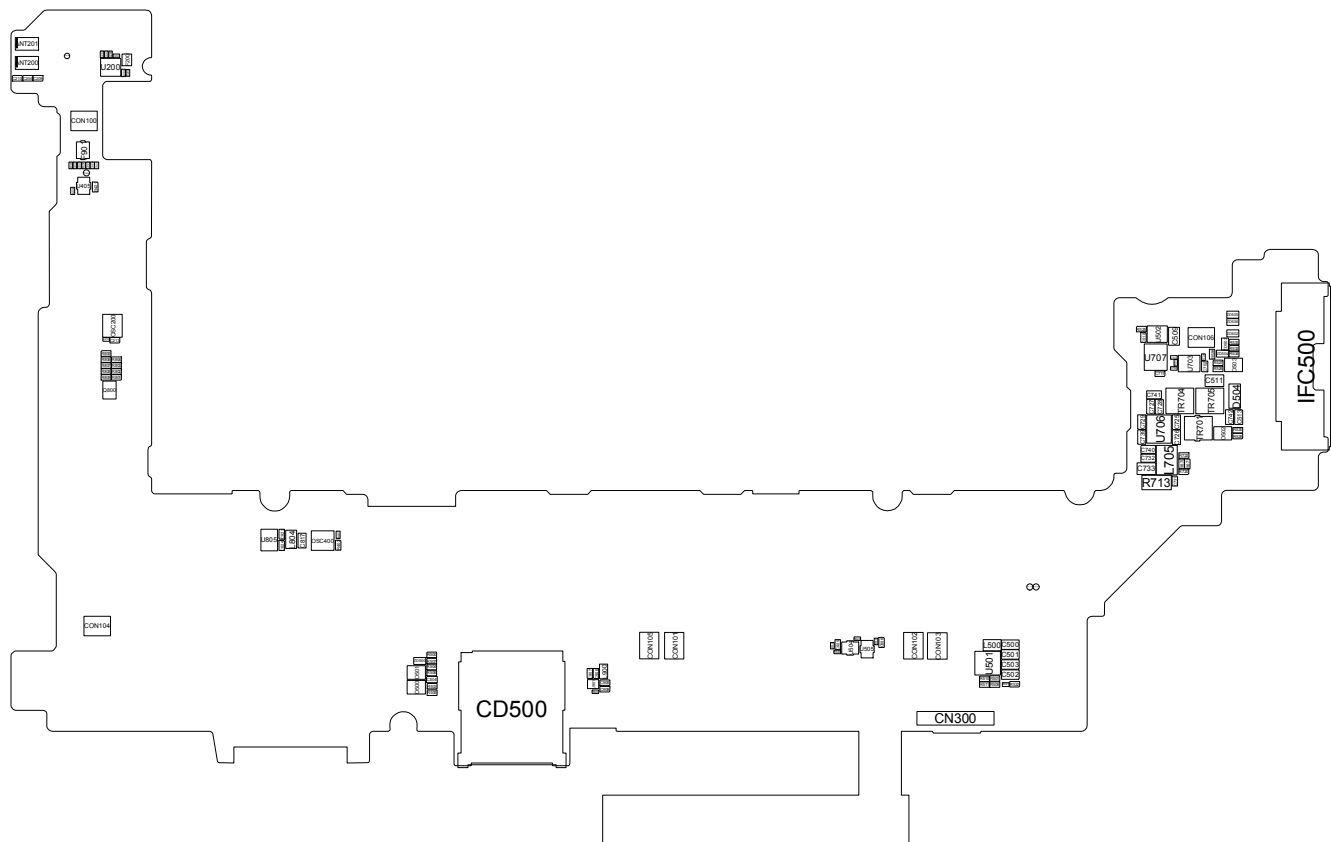


Be careful not to damage the FPCBs, not to scratch cover.

8. Level 3 Repair

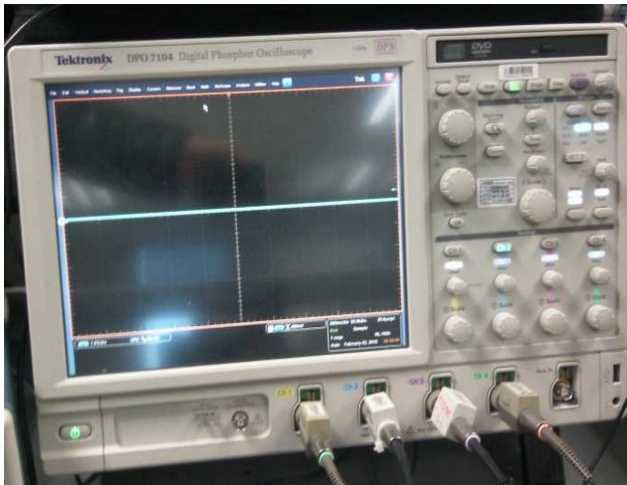
8-1. Block Diagram





8-3. Flow Chart of Troubleshooting

Equipments



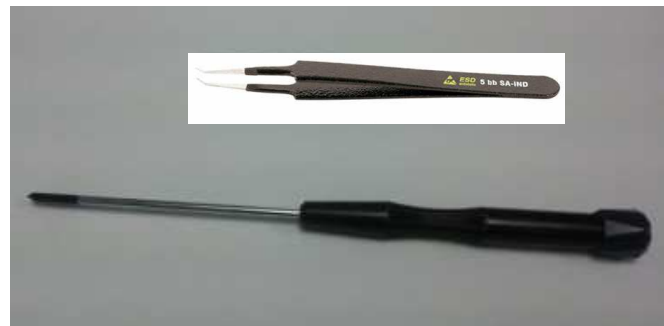
↑ Oscilloscope



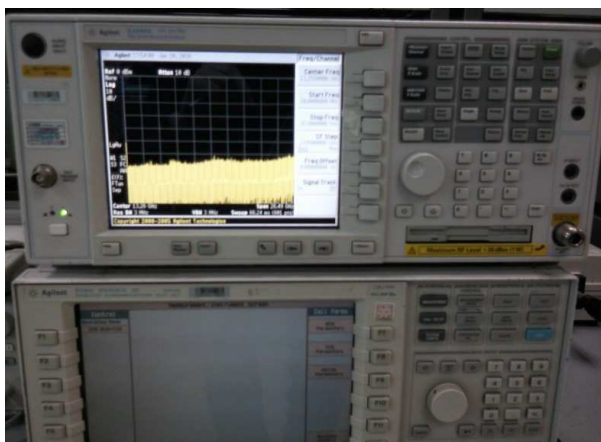
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

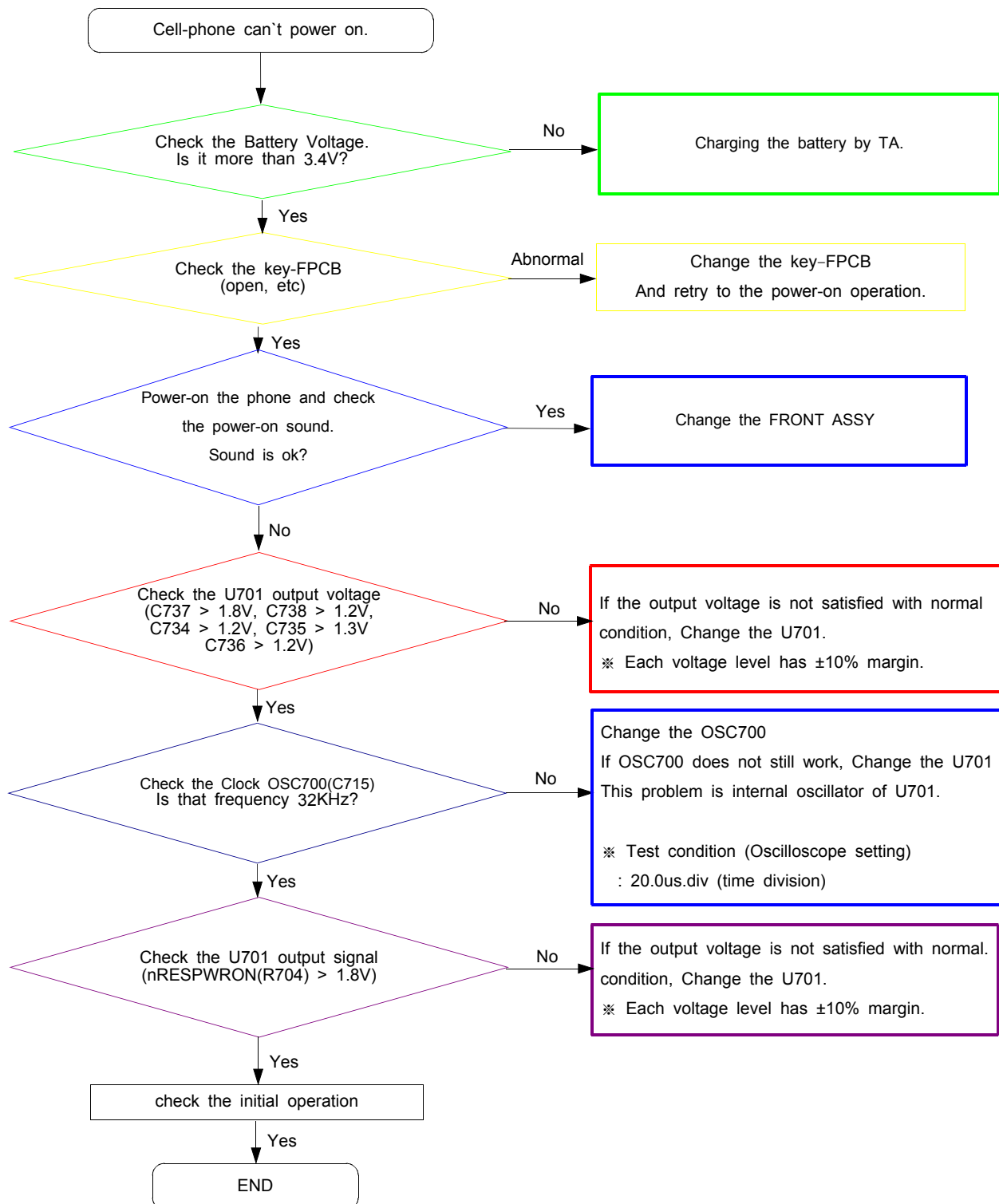


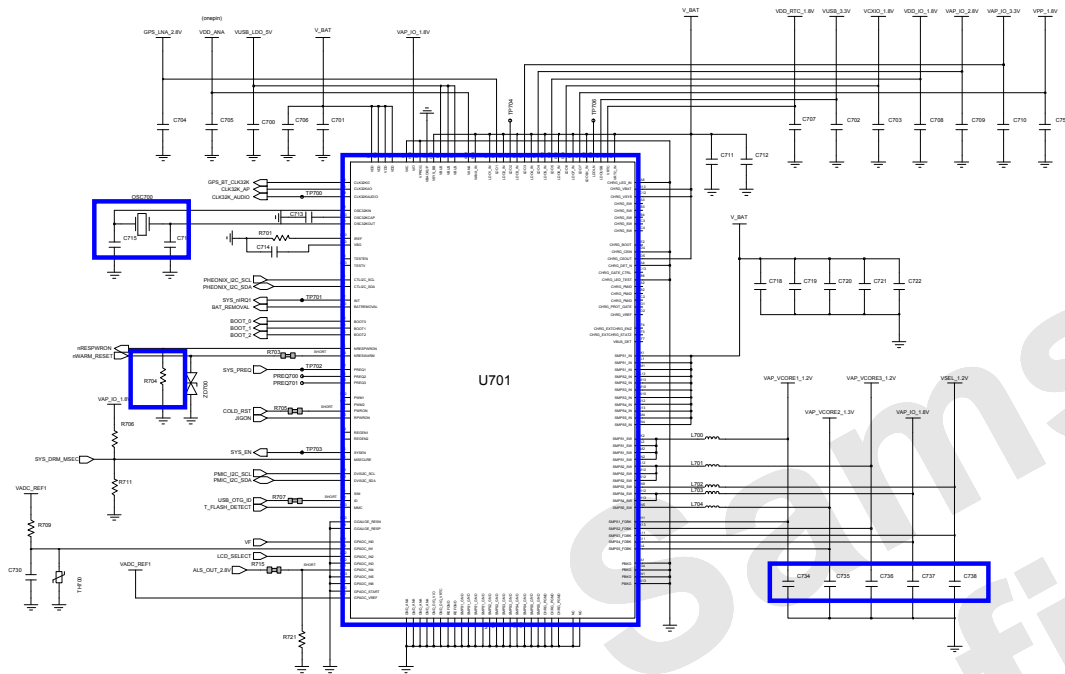
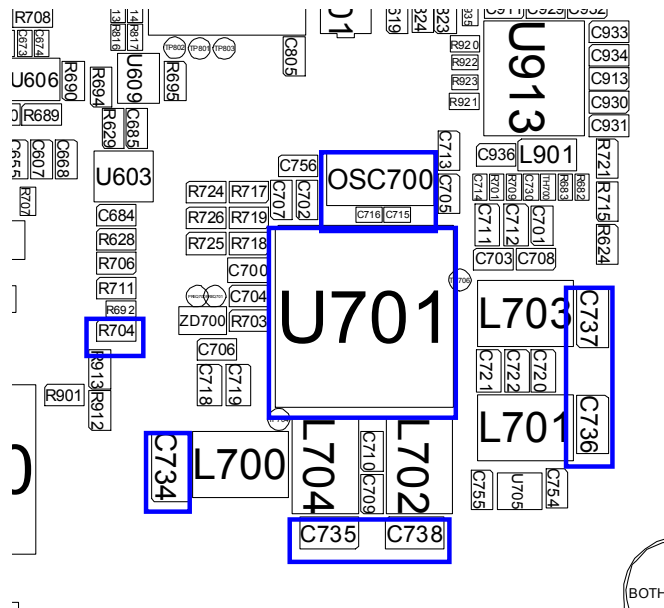
↑ 8960 & Spectrum Analyzer



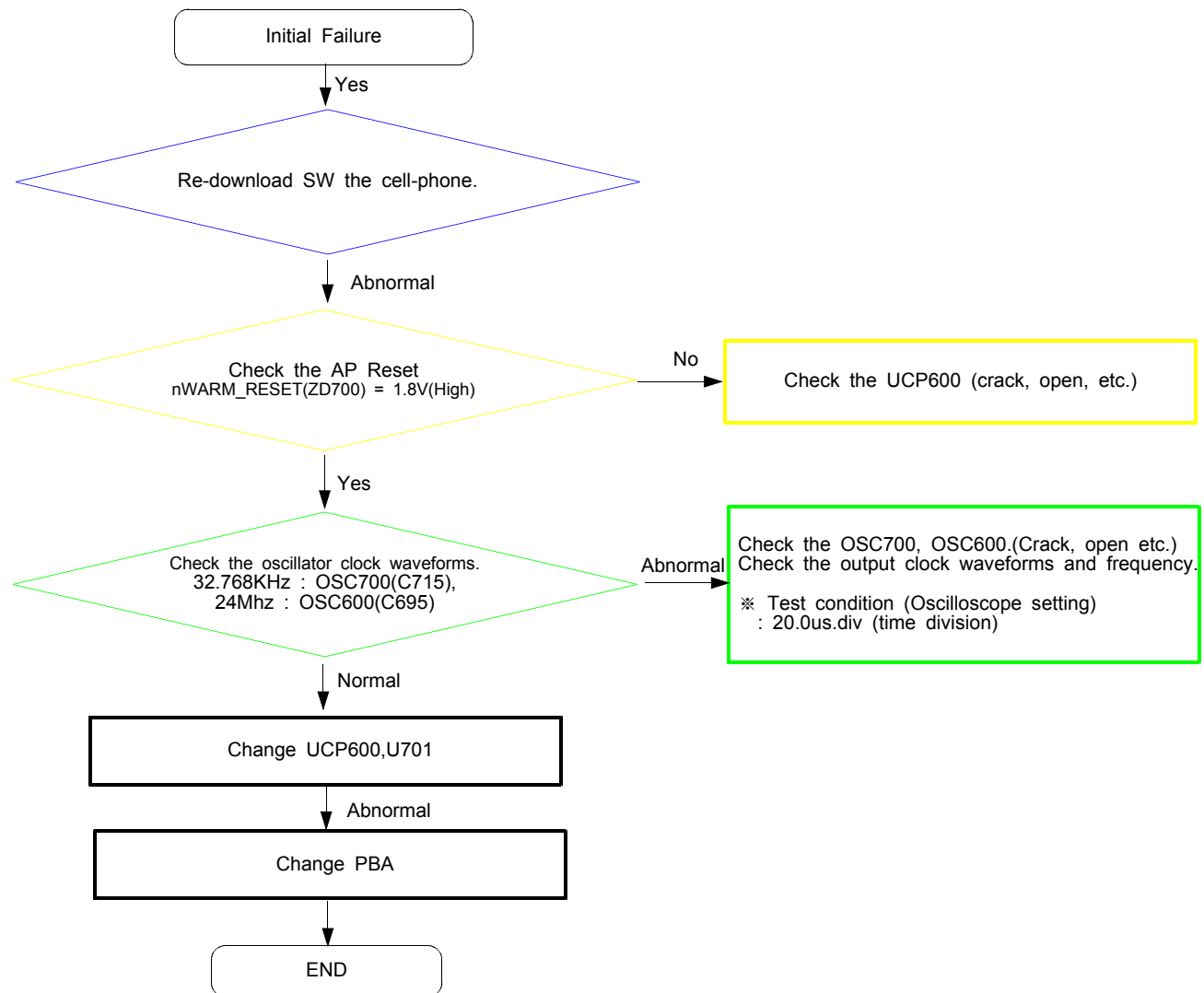
↑ Soldering iron

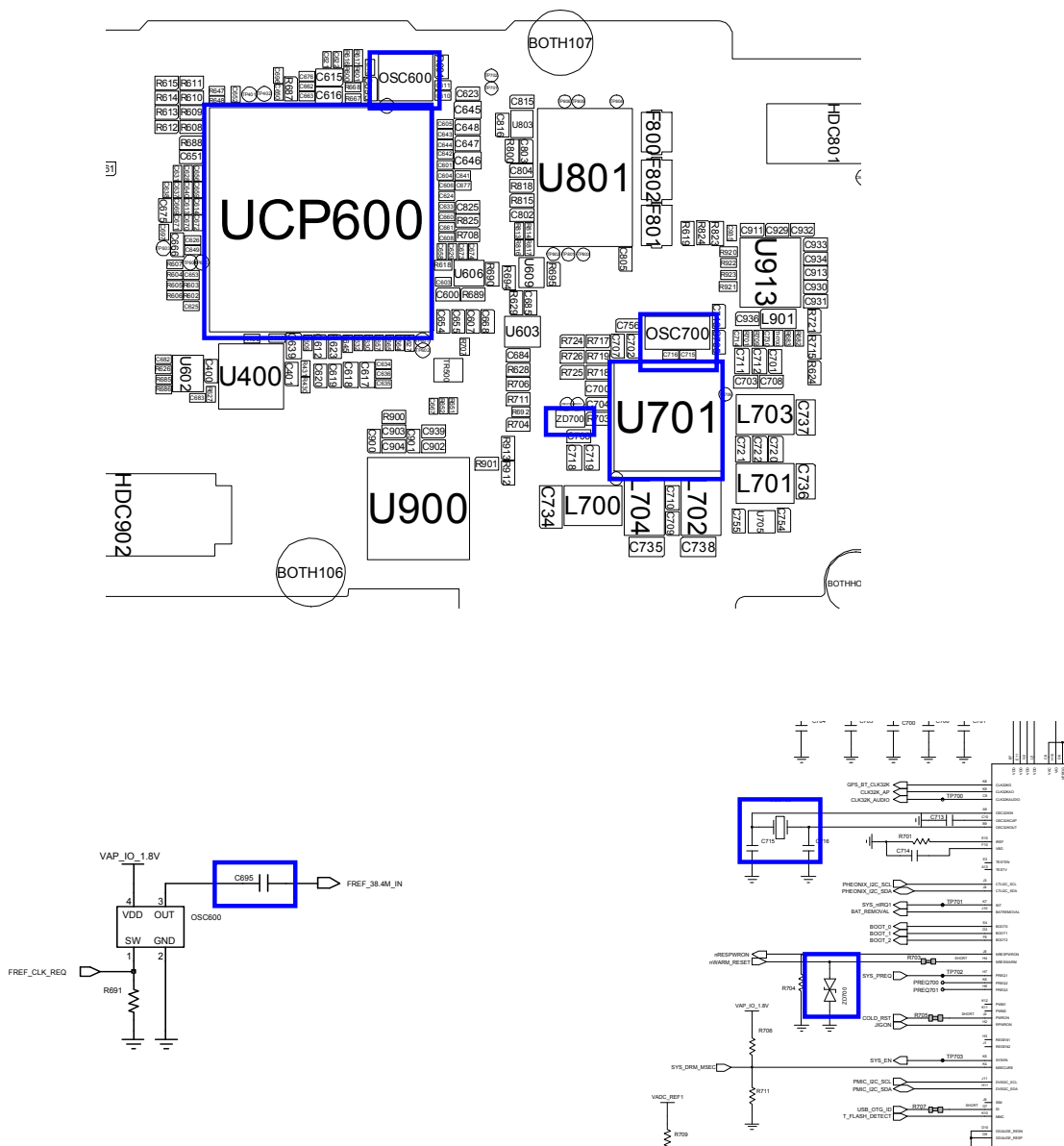
8-3-1. Power On



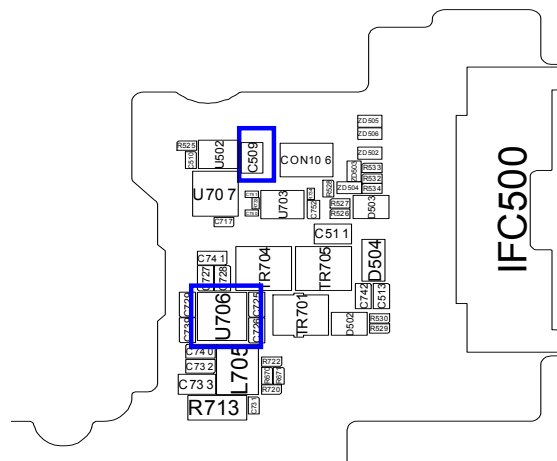
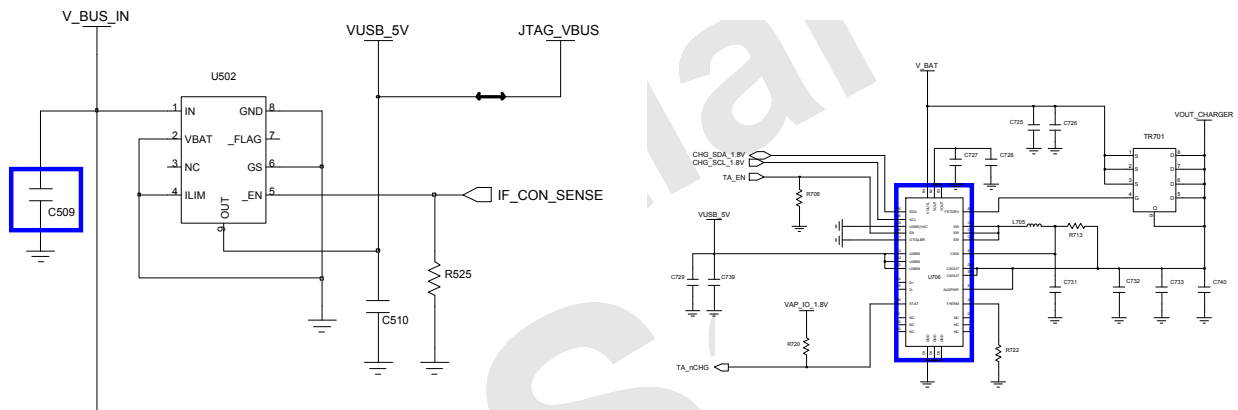
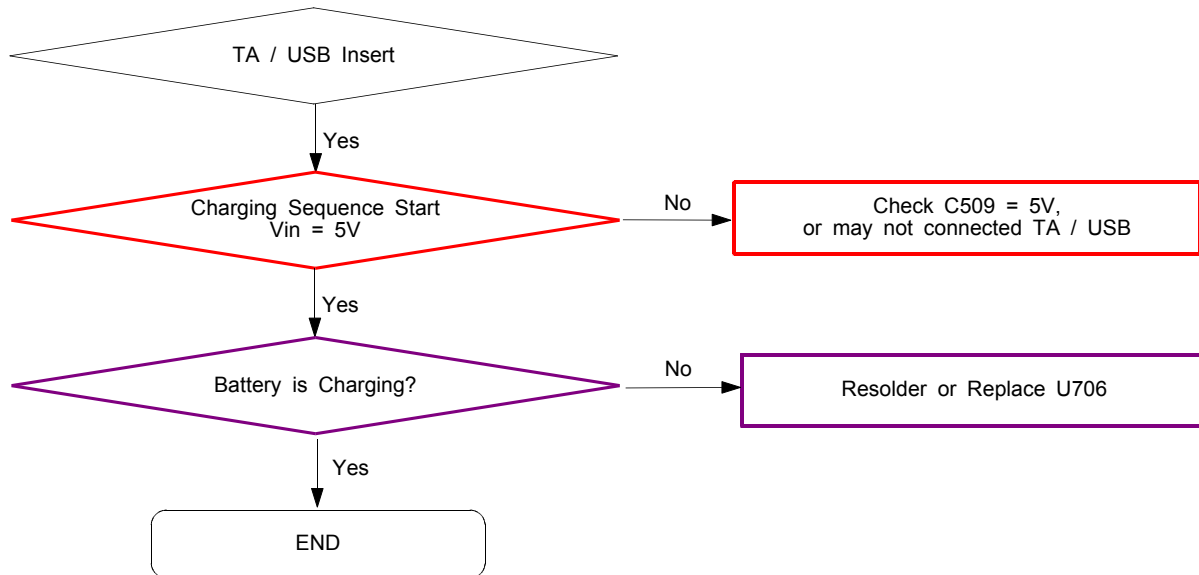


8-3-2. Initial

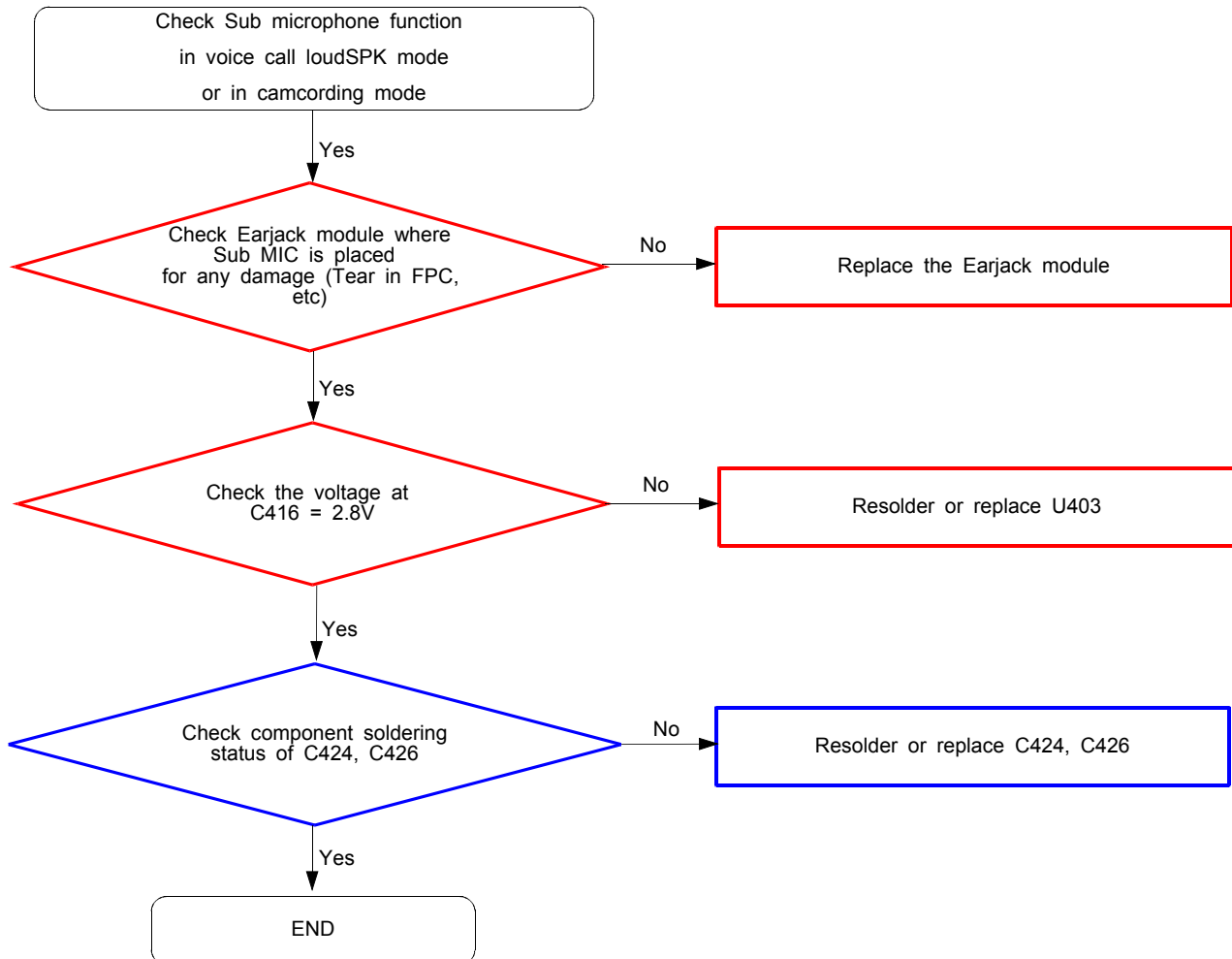


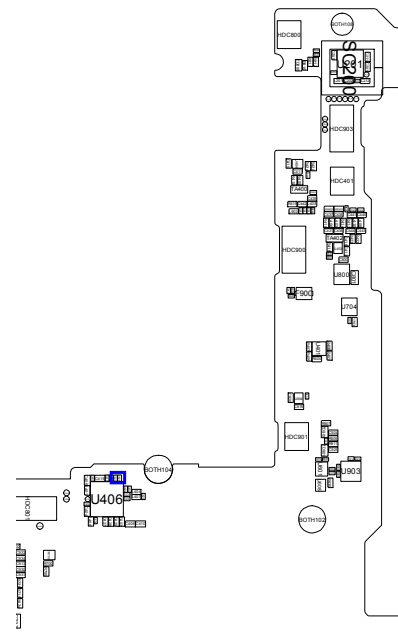
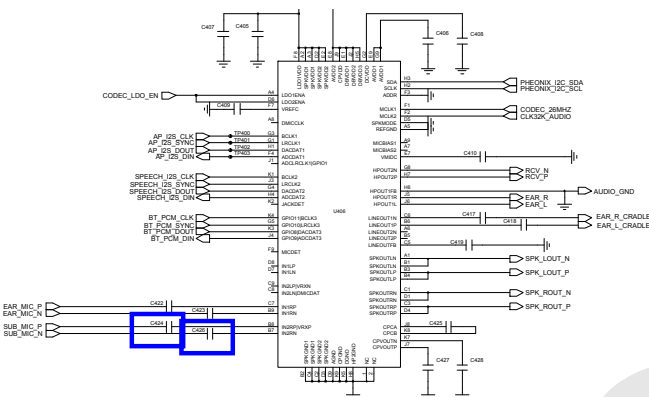
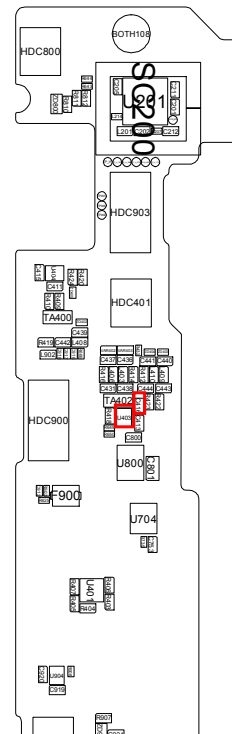
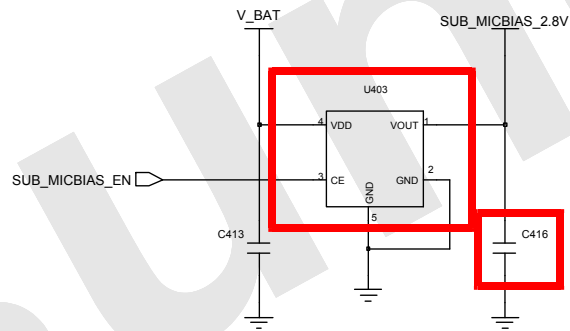


8-3-3. Charging Part

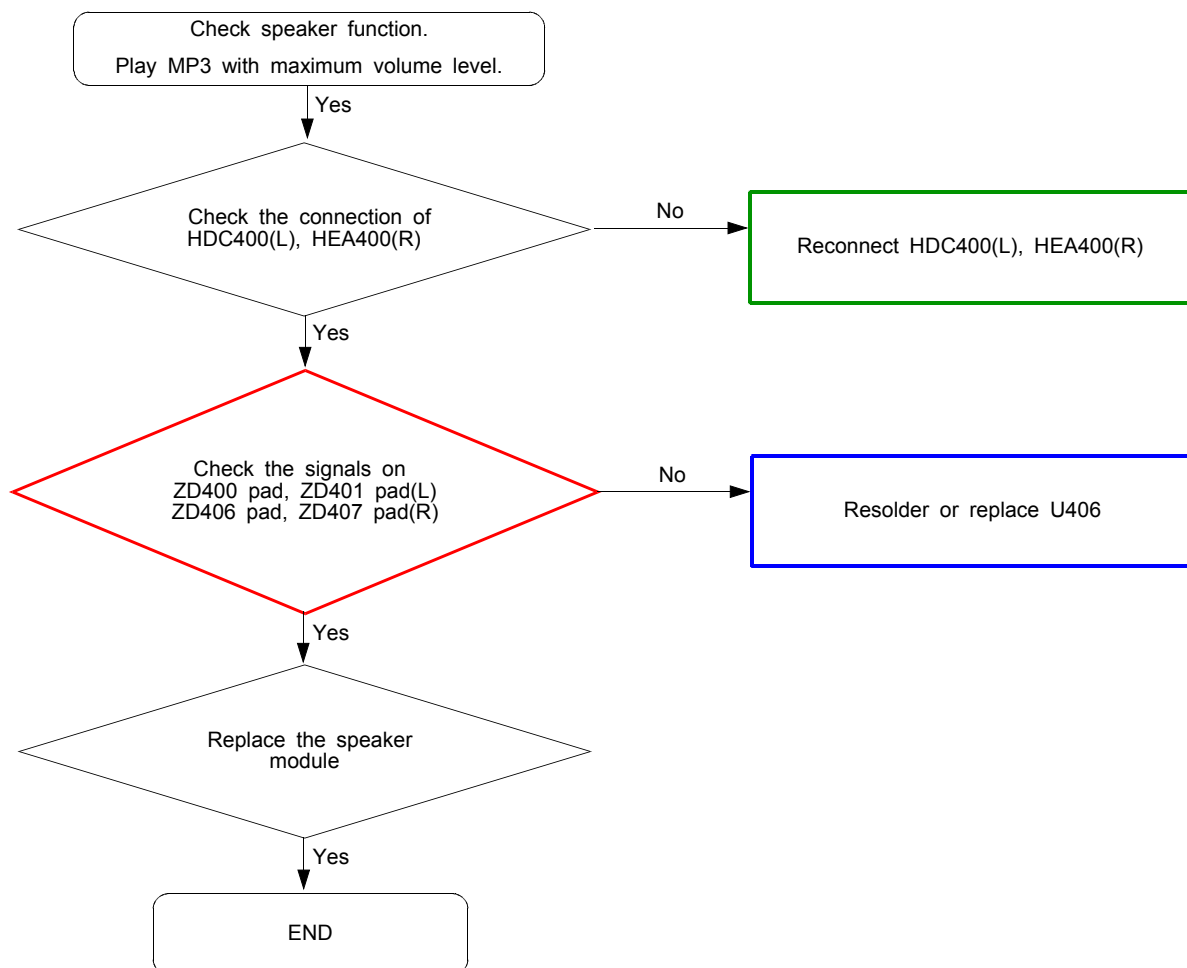


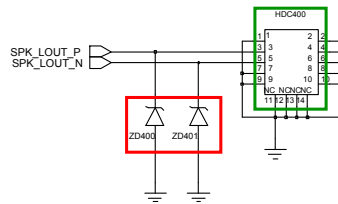
8-3-4. Microphone Part (Sub MIC)



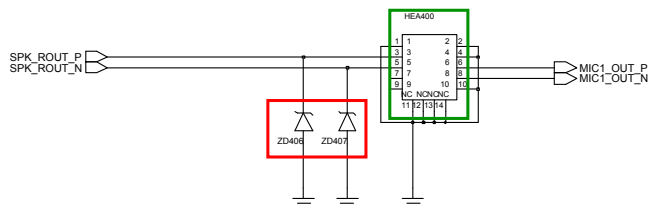


8-3-5. Speaker Part

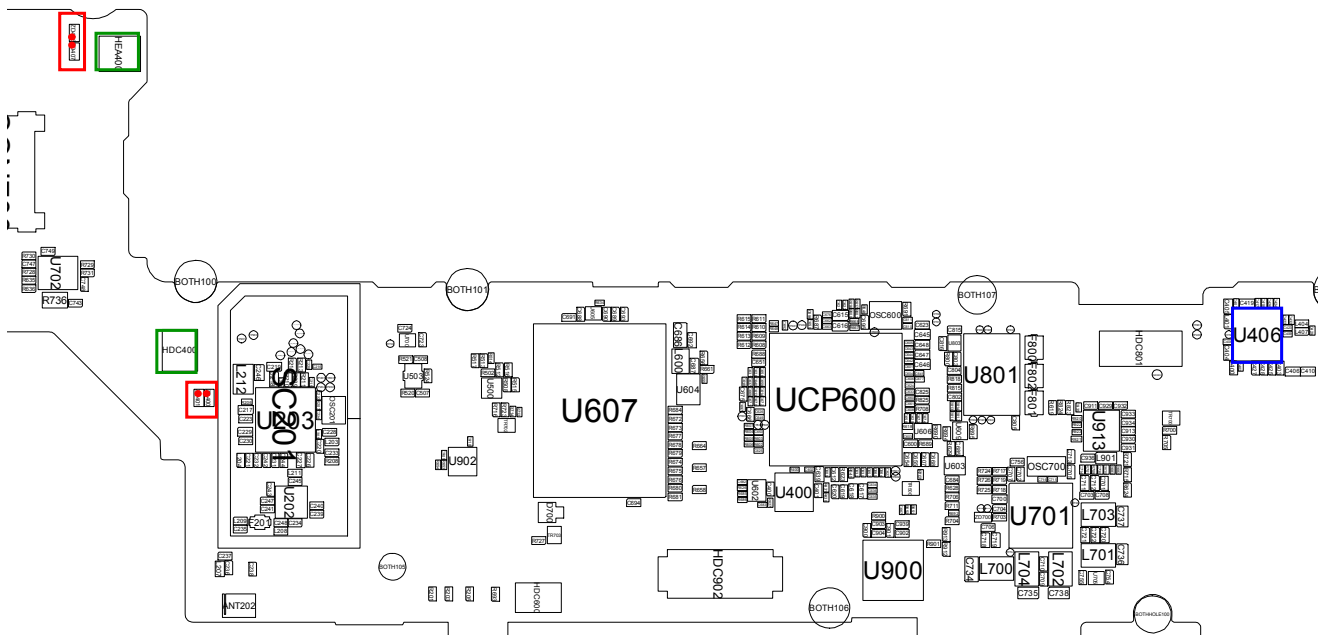
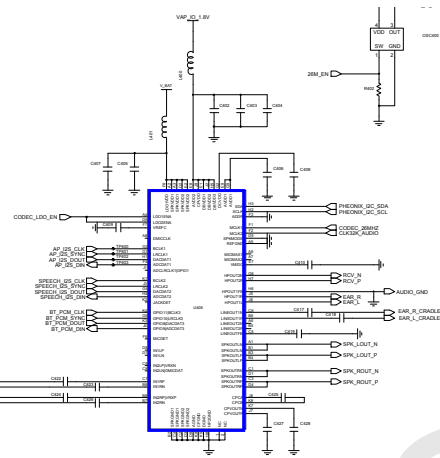




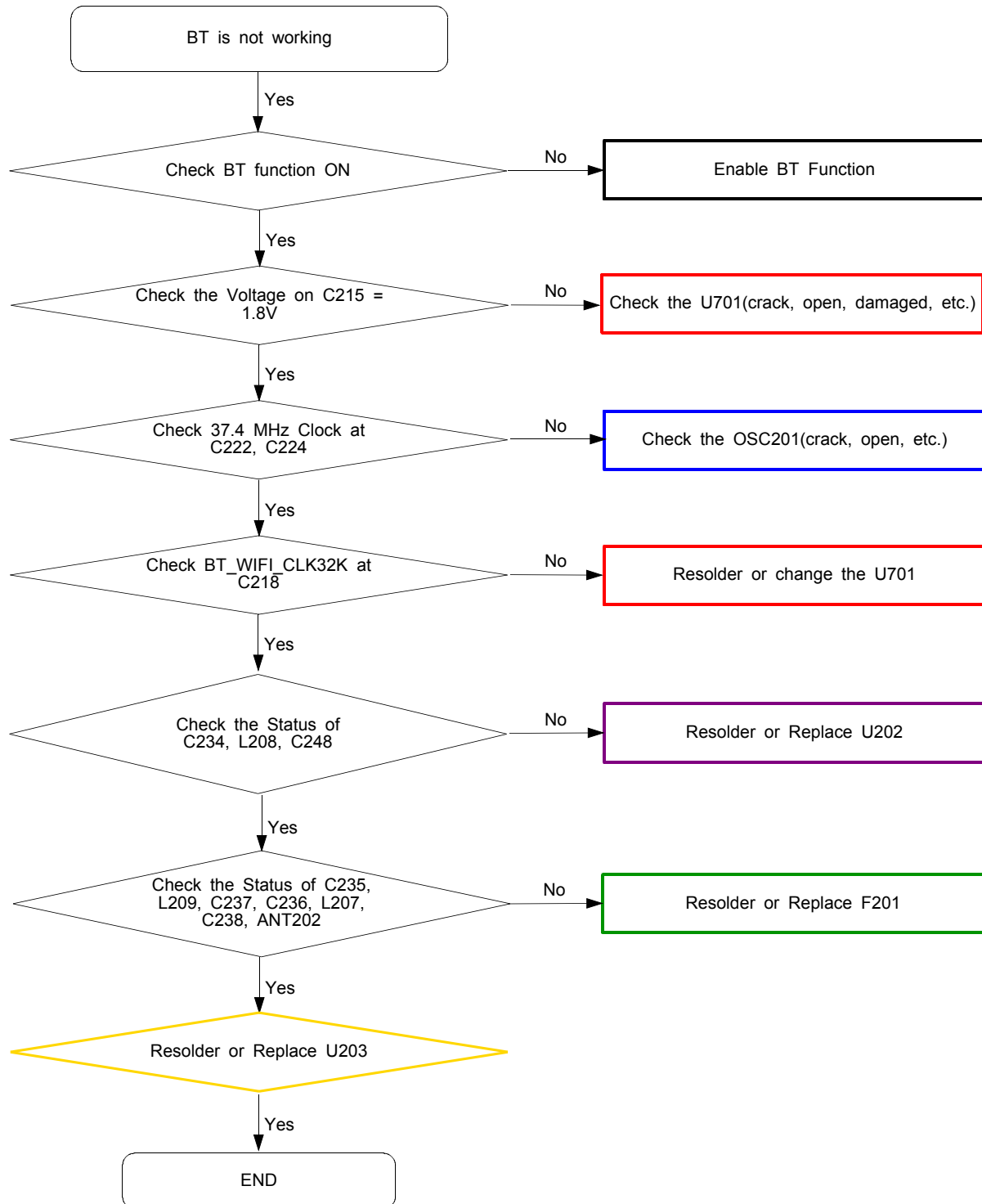
Left SPK conn

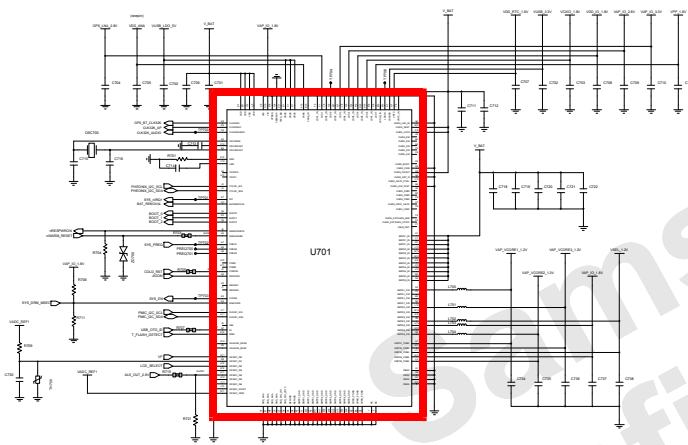
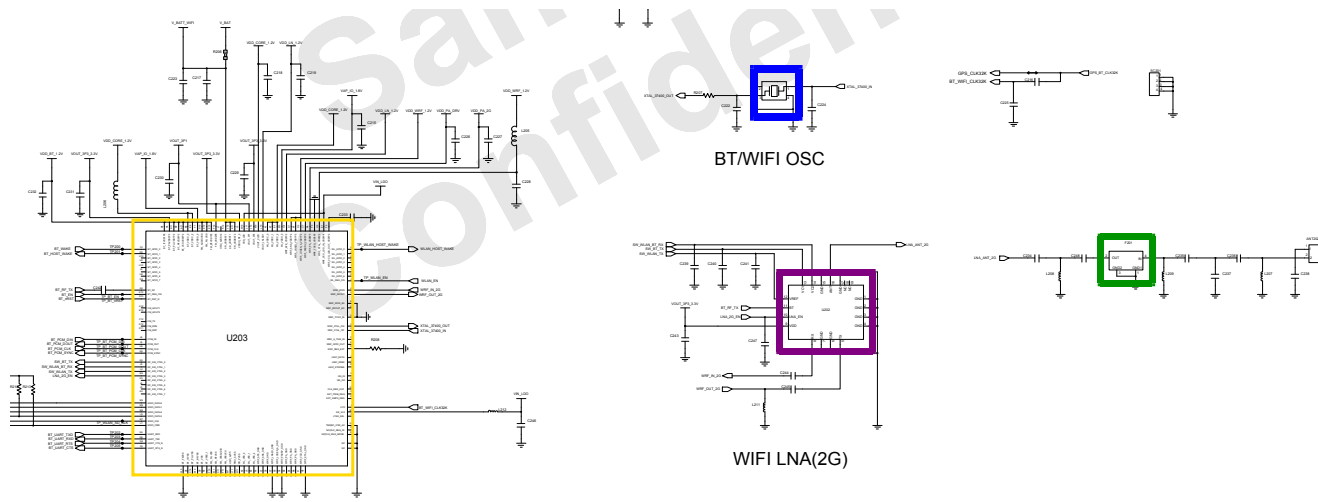


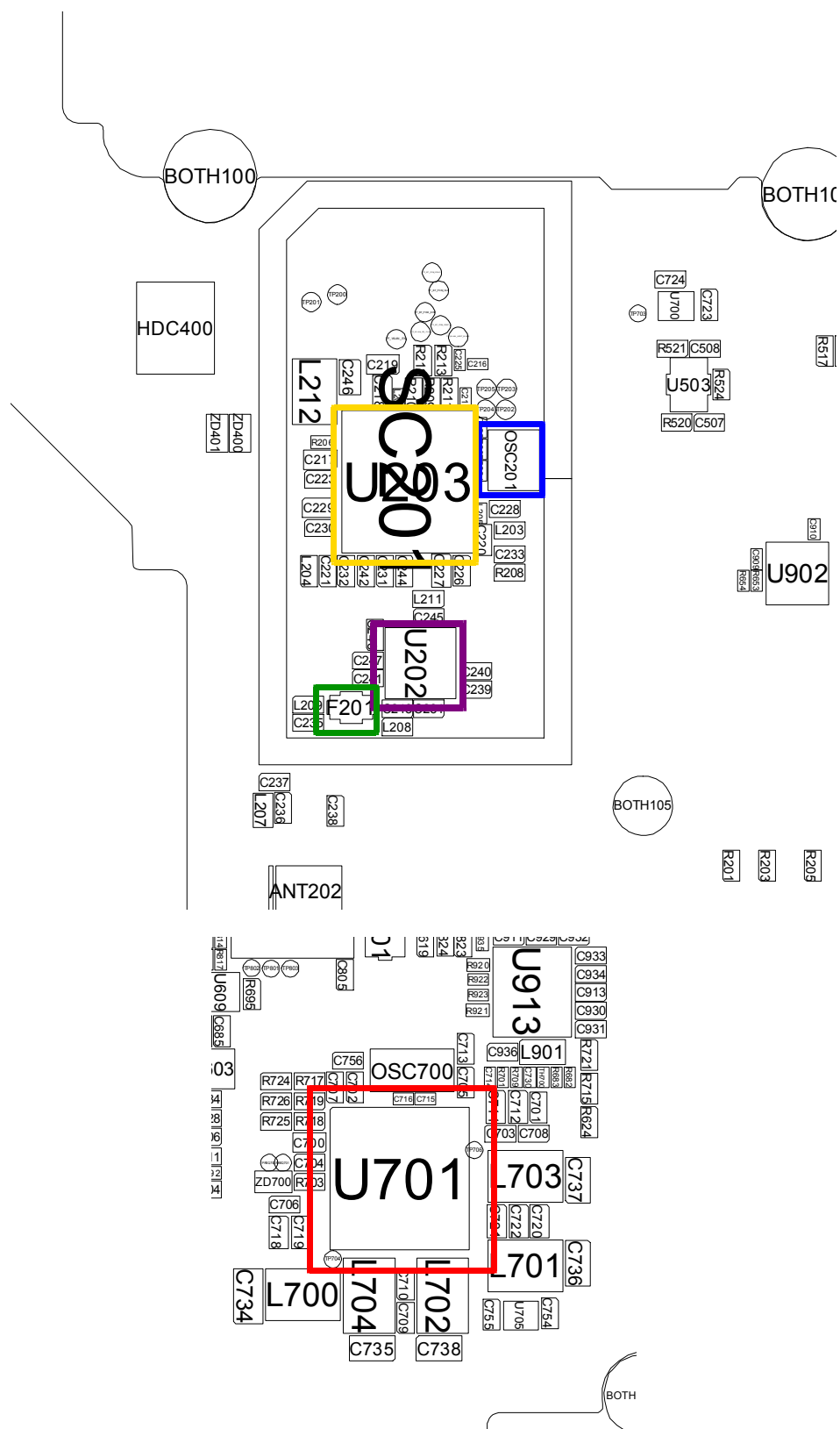
Right SPK / MOT conn



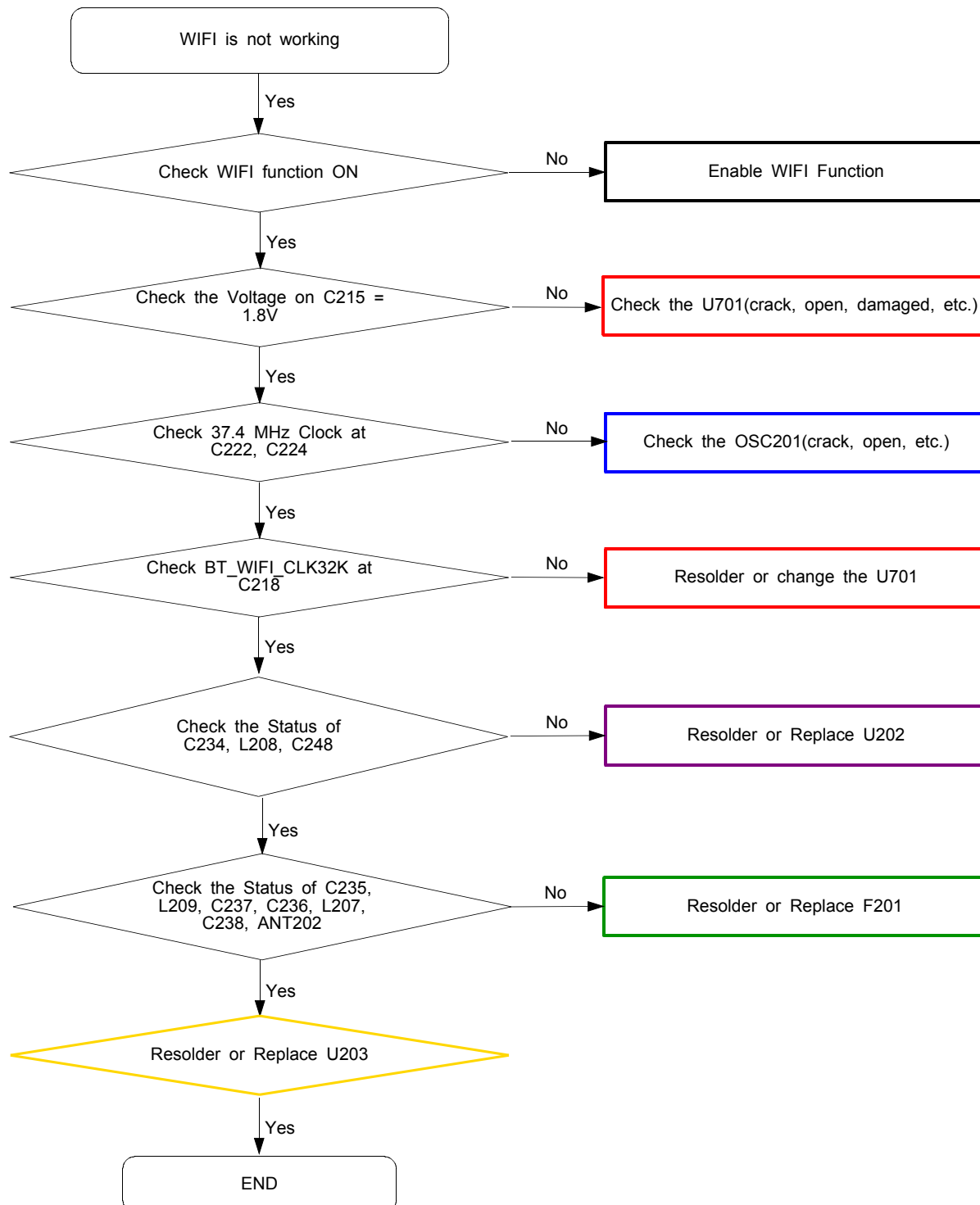
8-3-6. BT

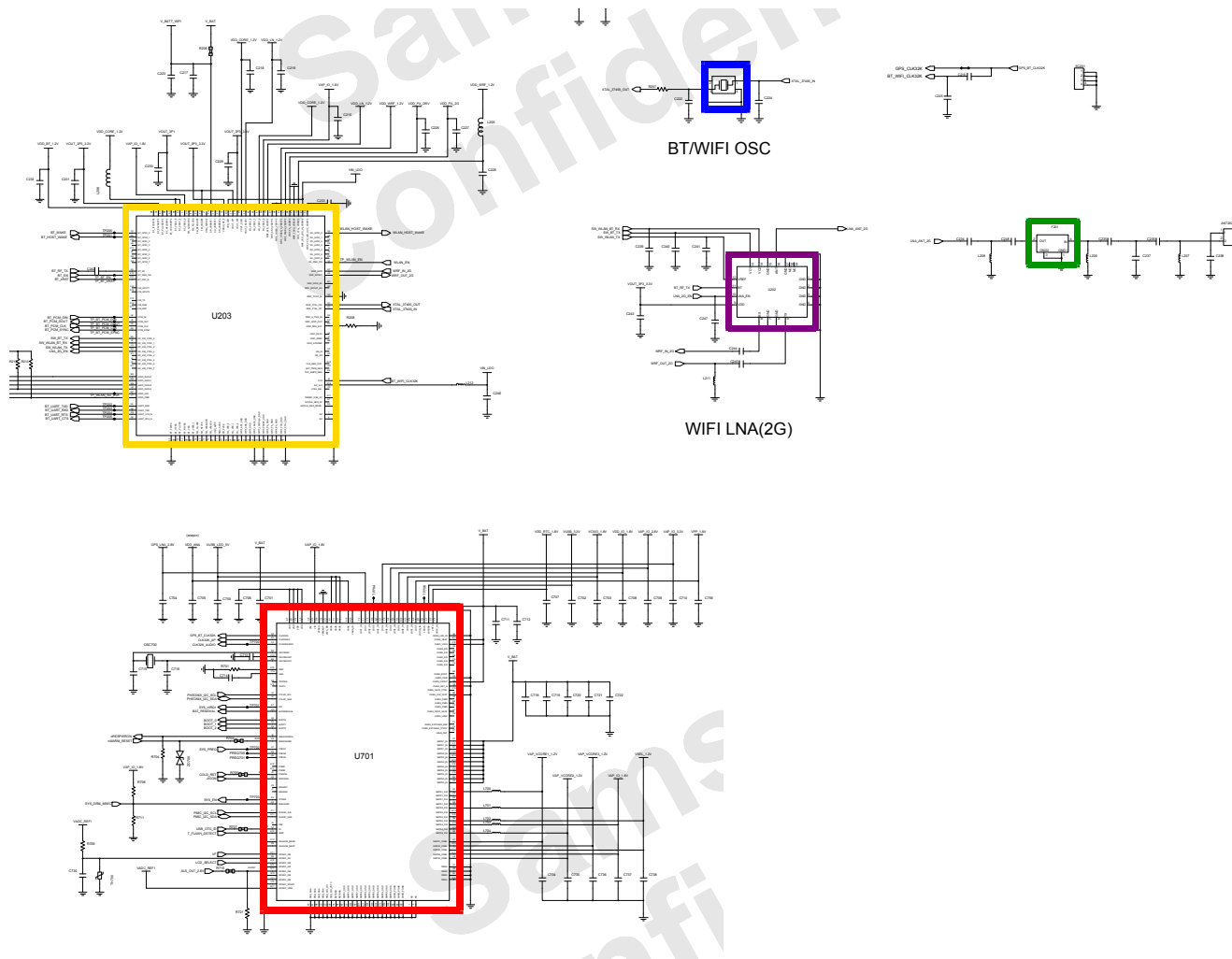


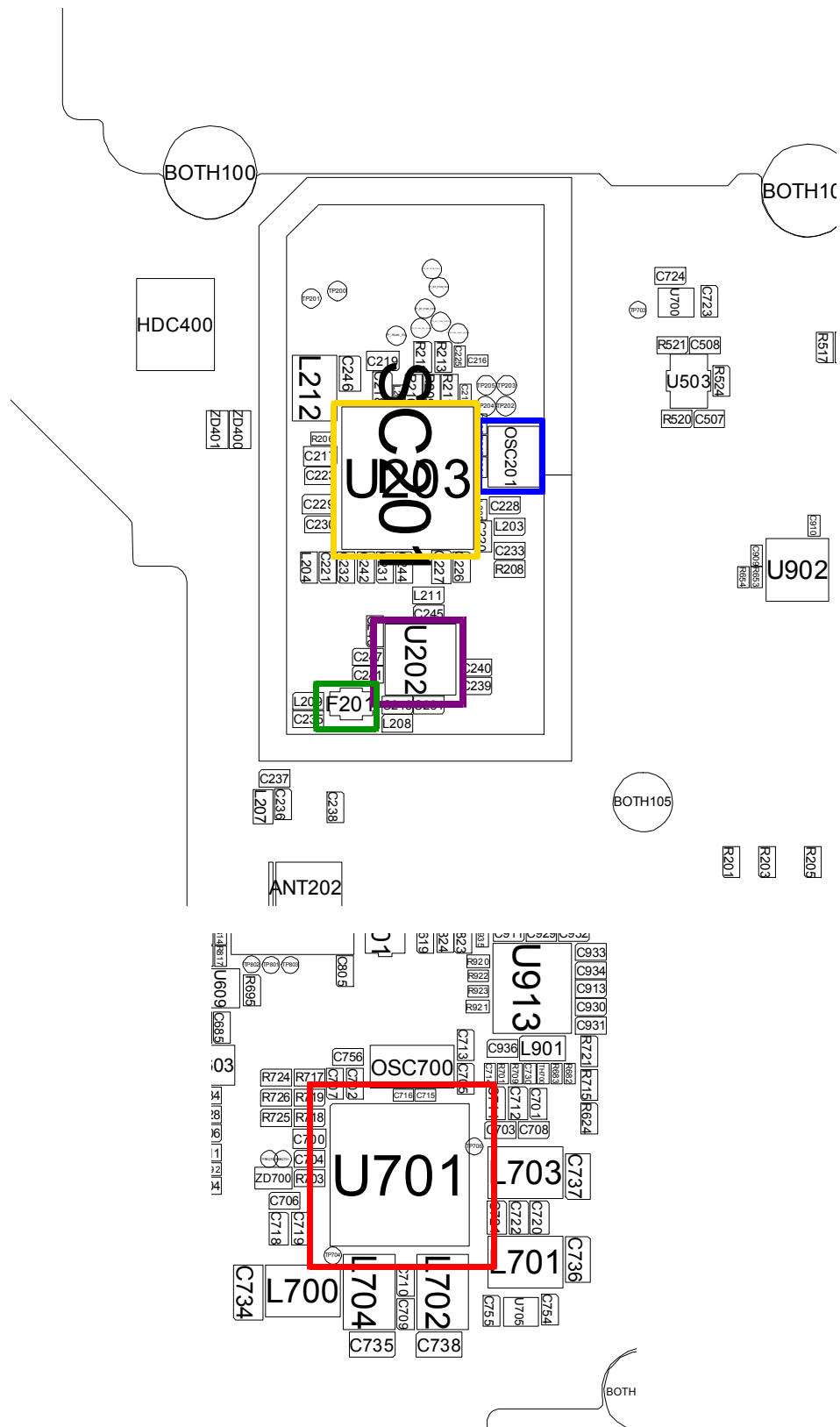




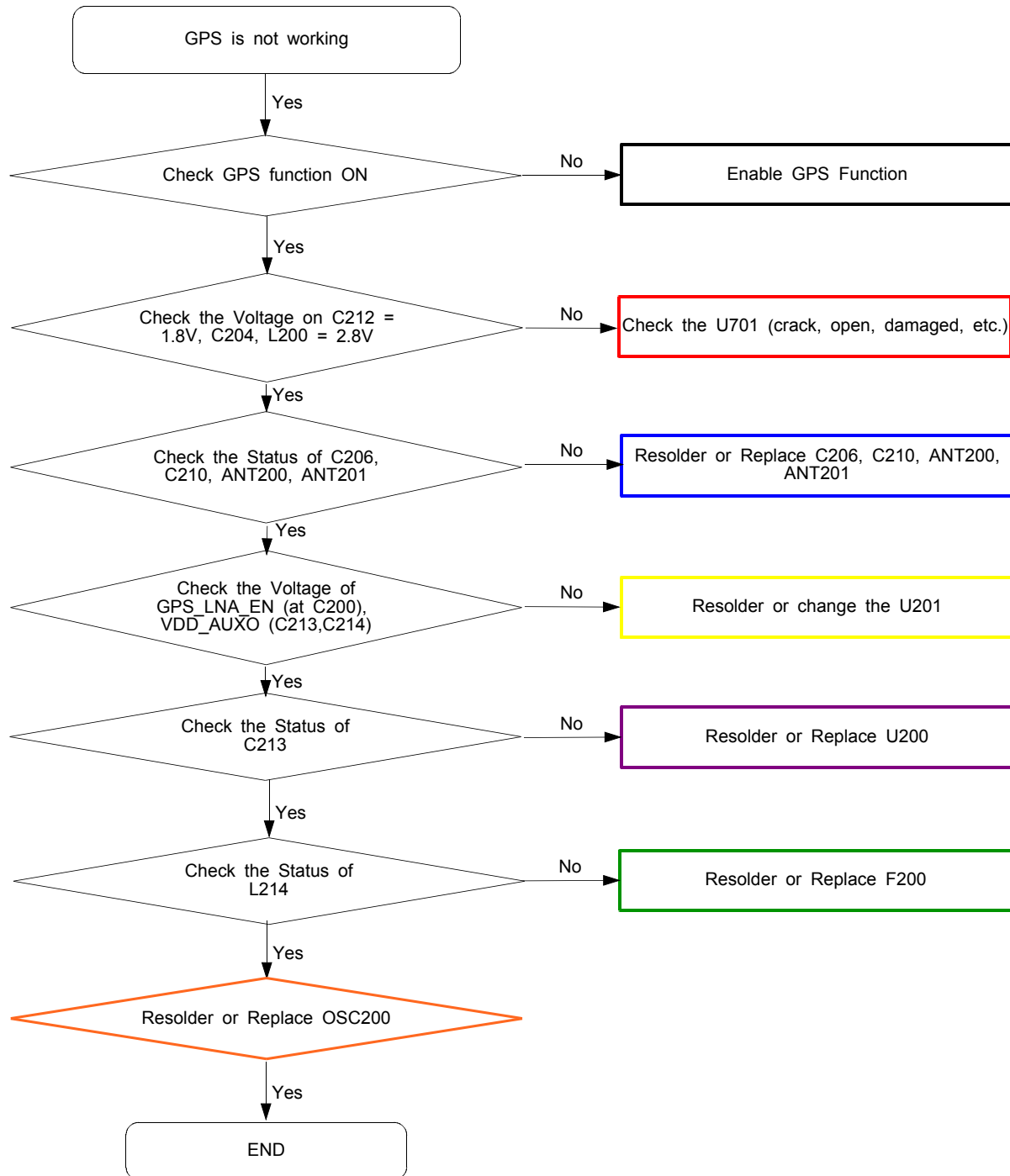
8-3-7. WIFI

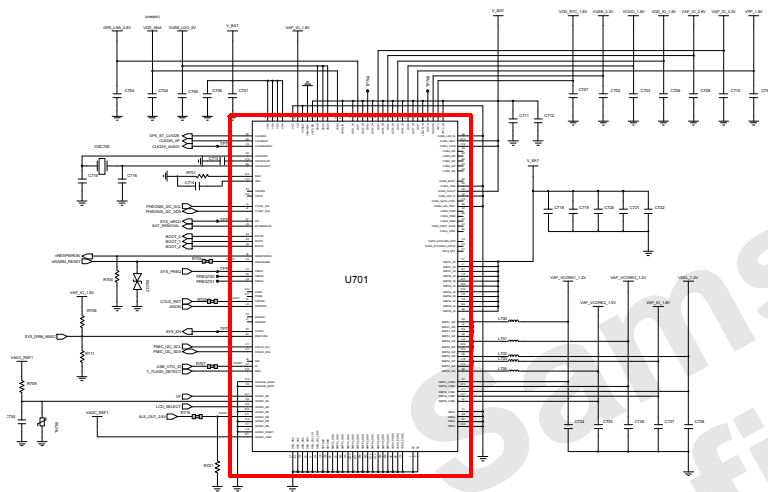
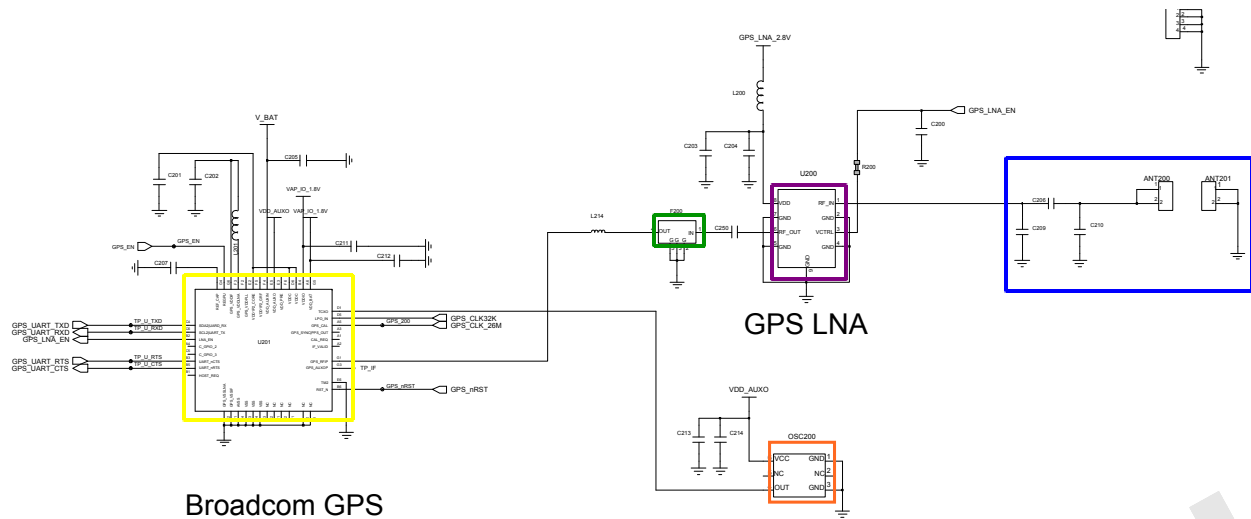


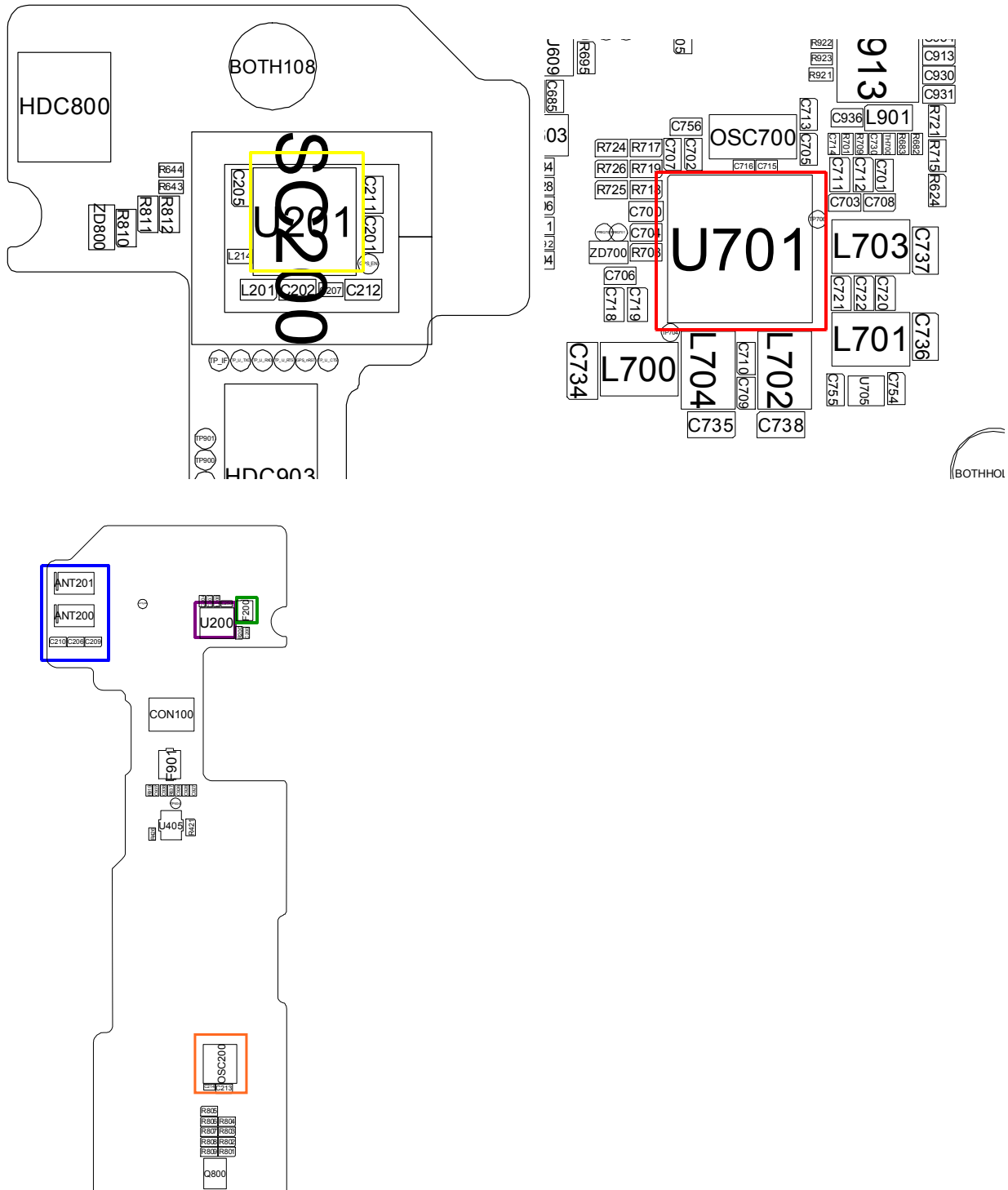




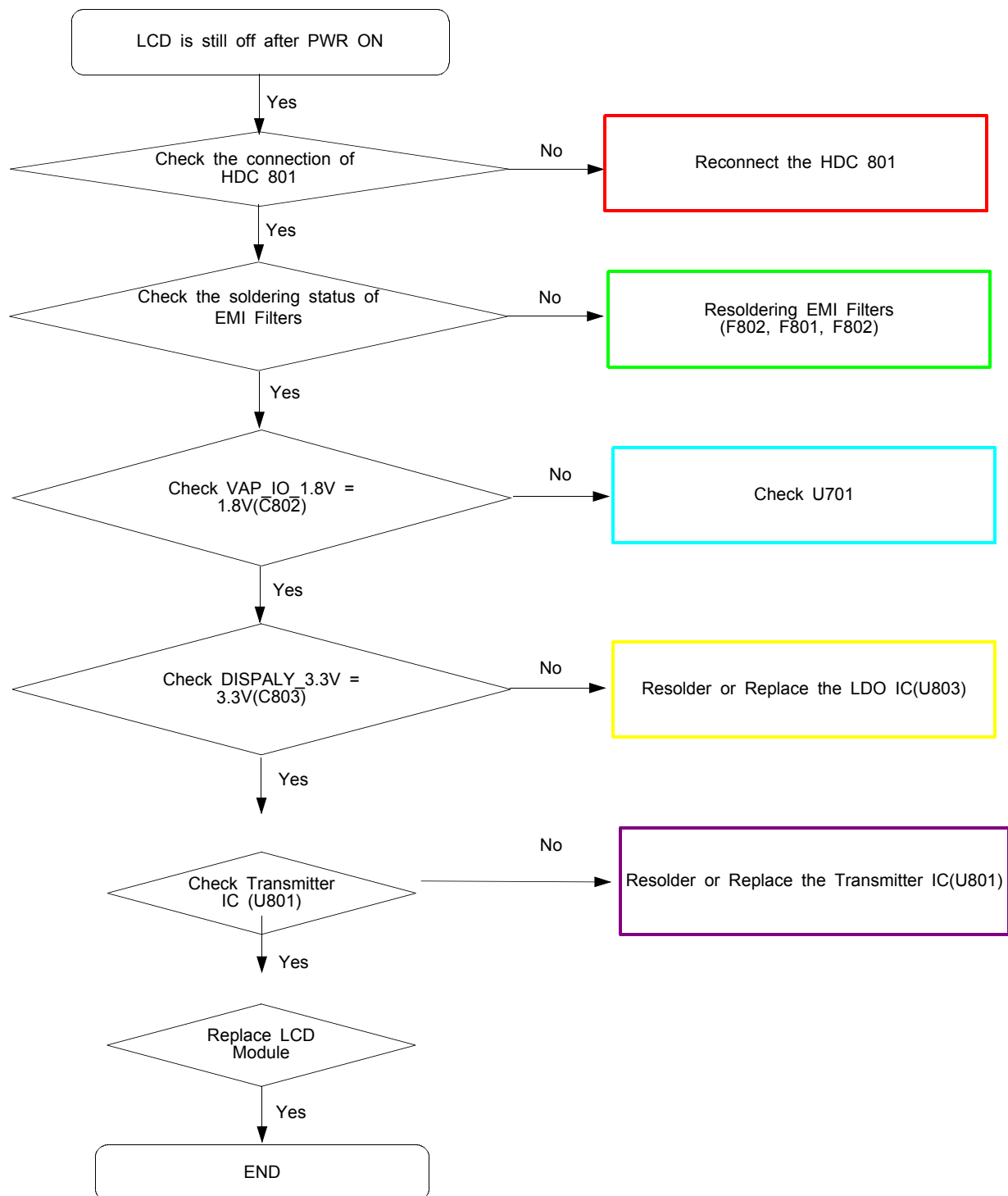
8-3-8. GPS



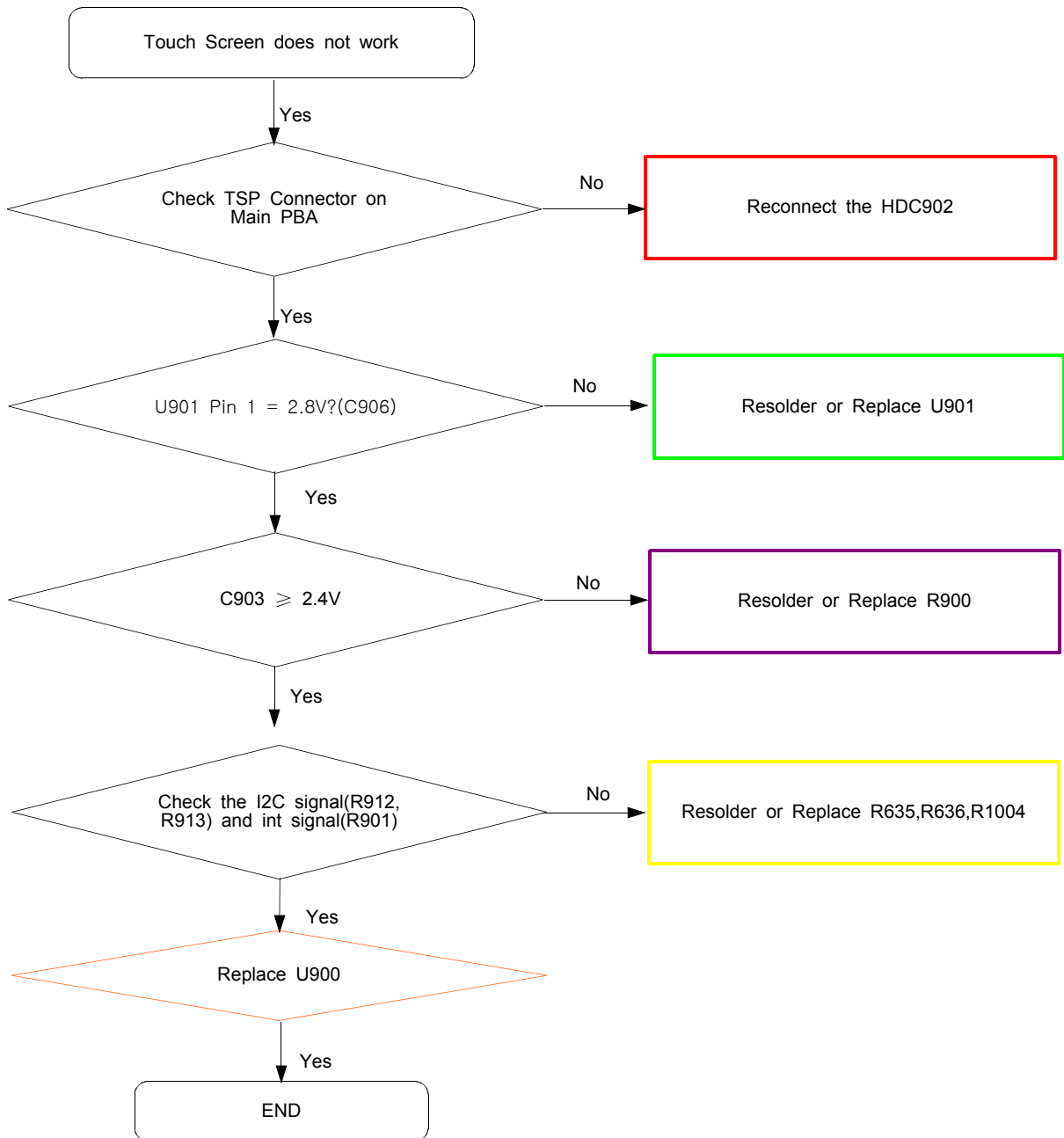


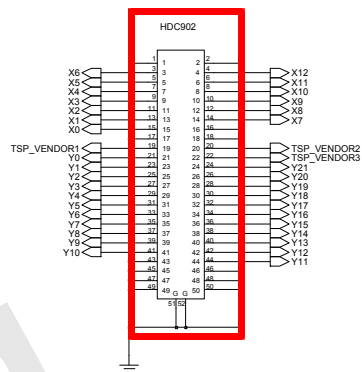


8-3-9. LCD

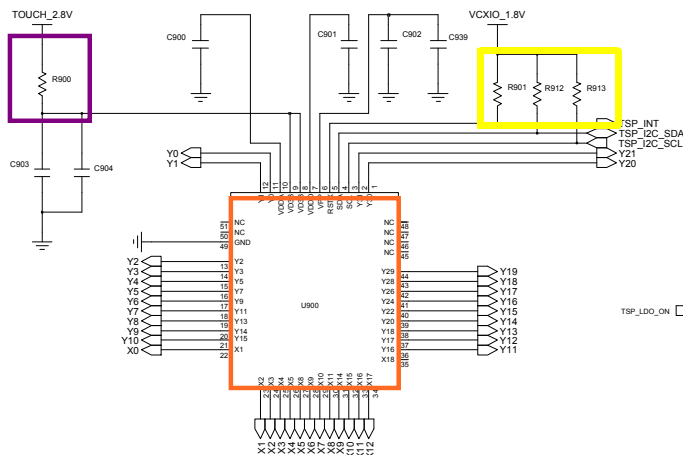


8-3-10. TSP

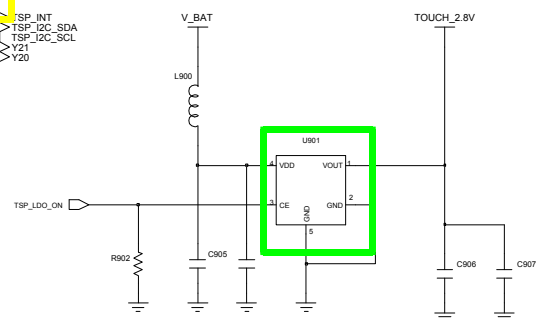




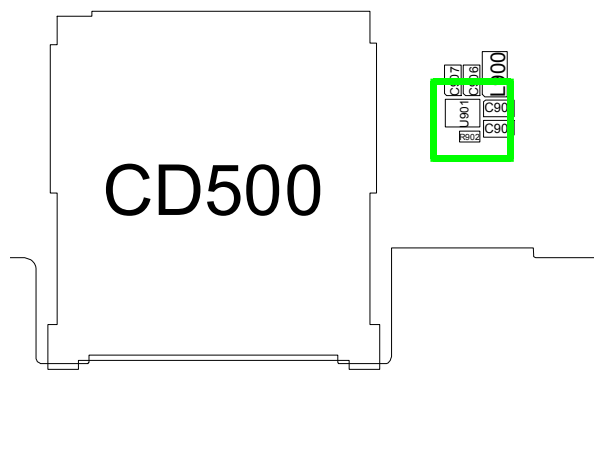
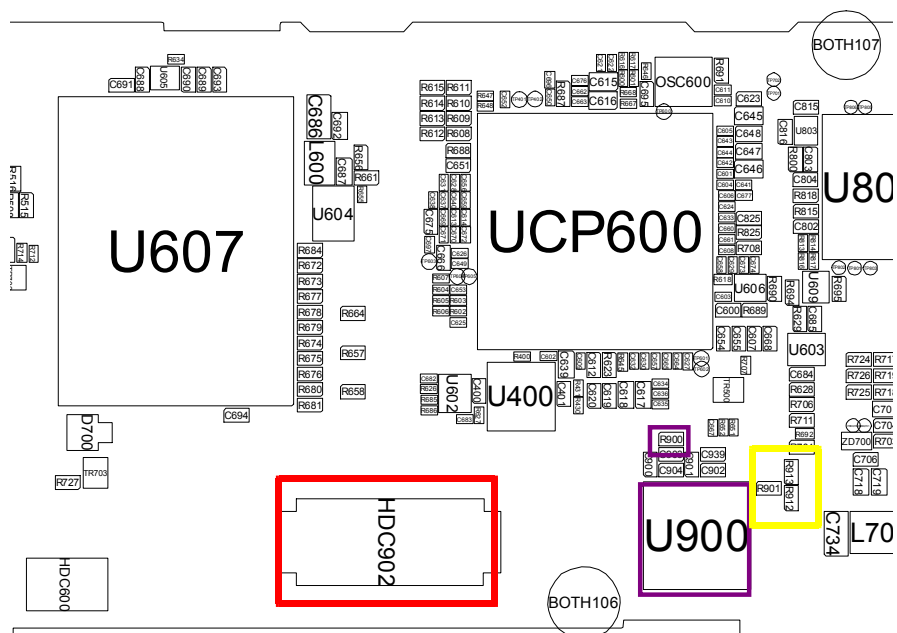
50Pin TOUCH Con.



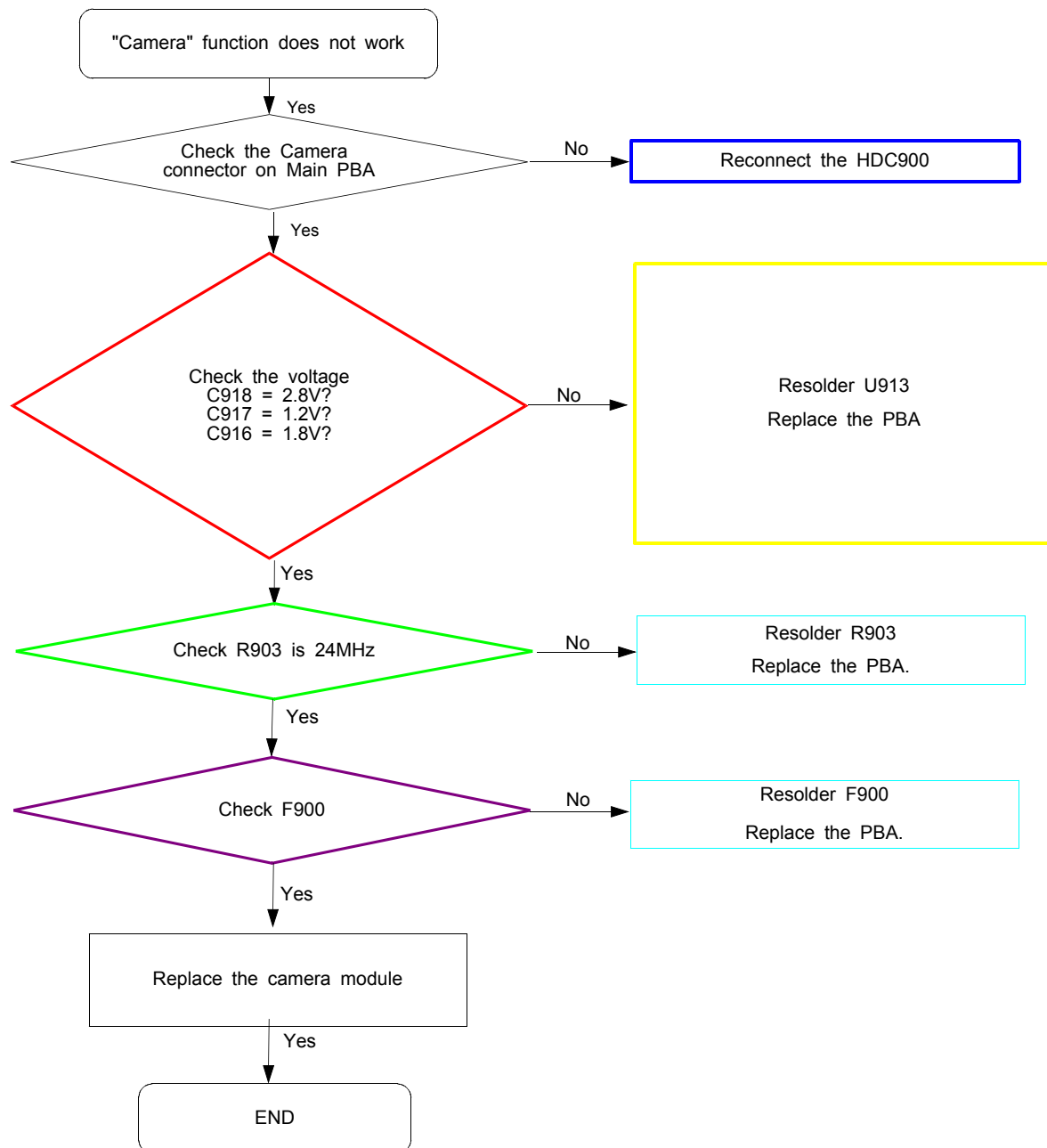
TOUCH SENSOR IC

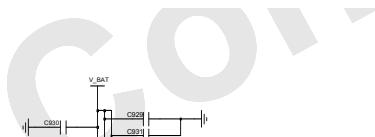


TOUCH LDO

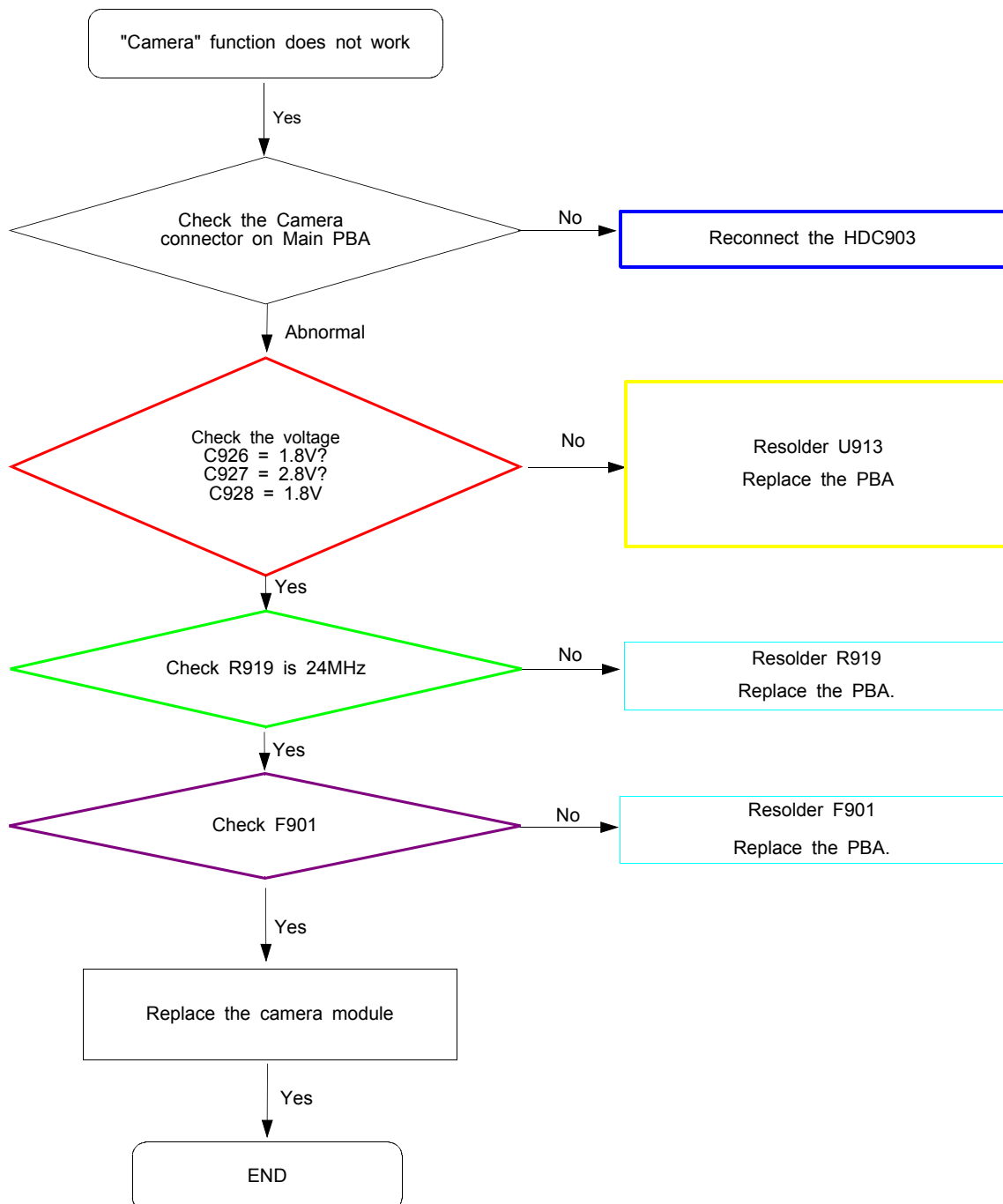


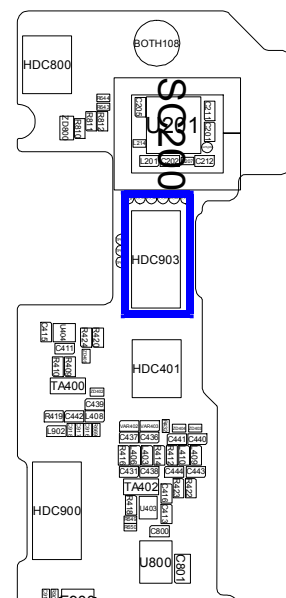
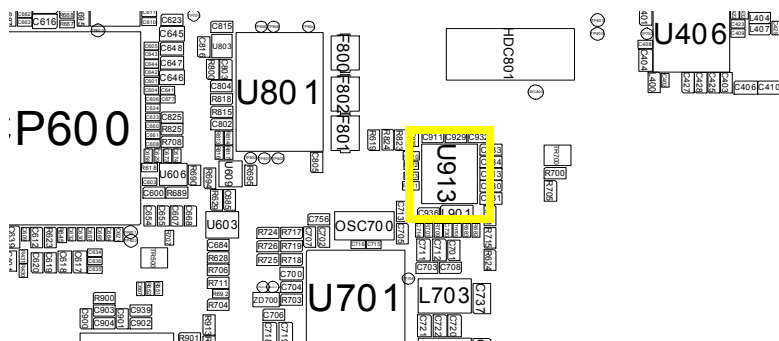
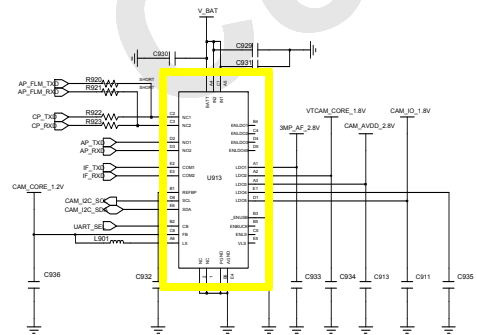
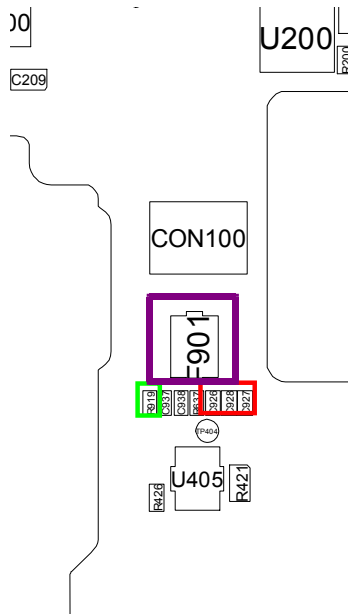
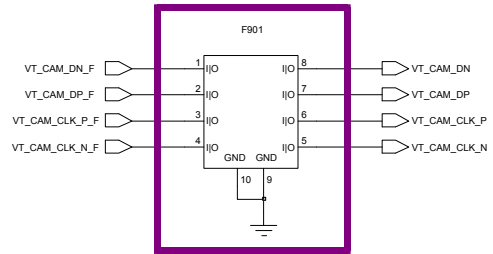
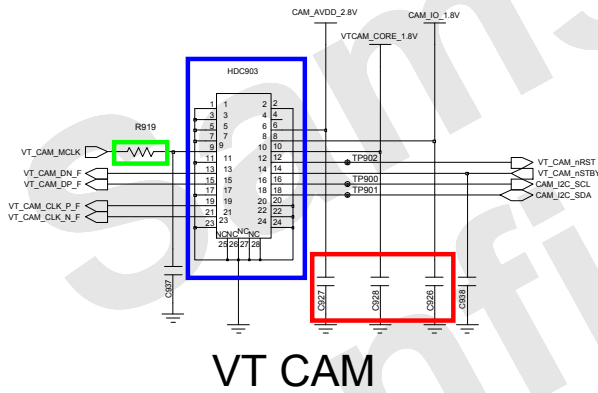
8-3-11. 3M CAM



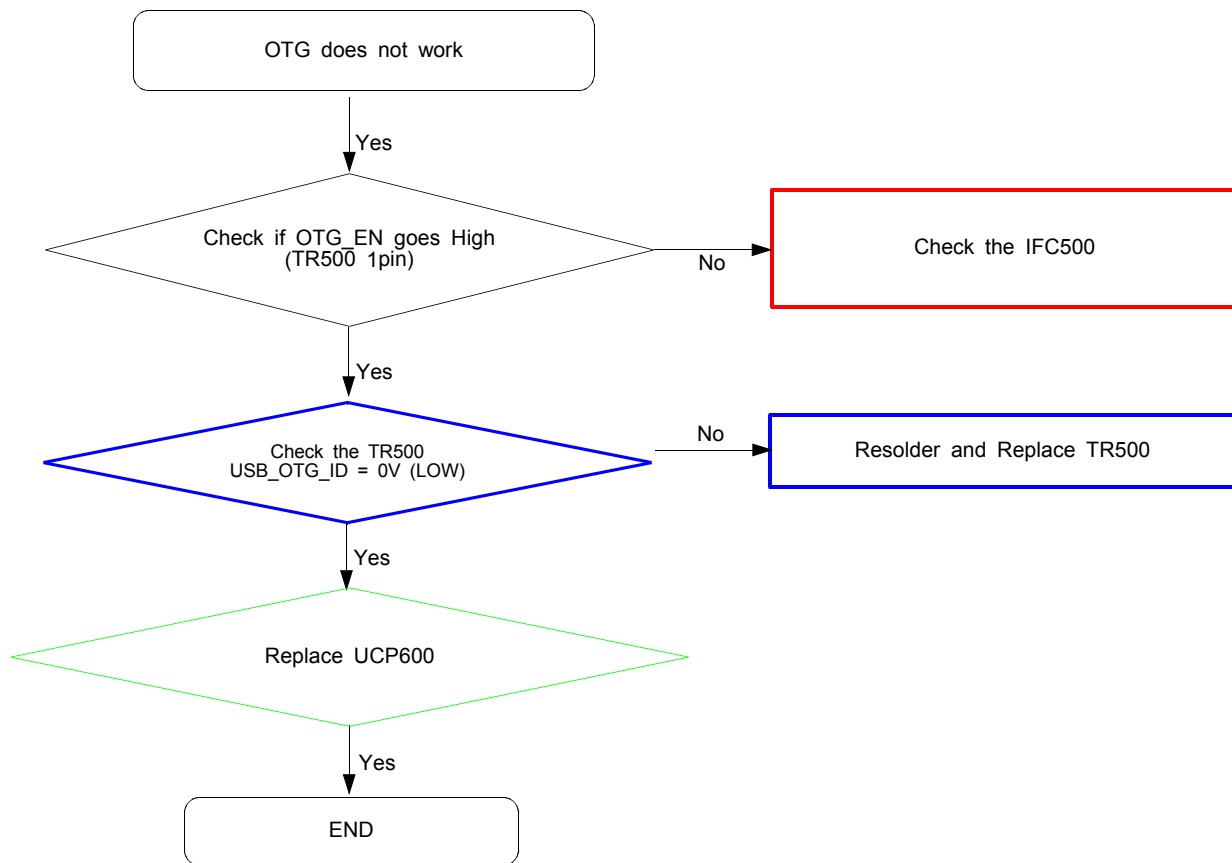


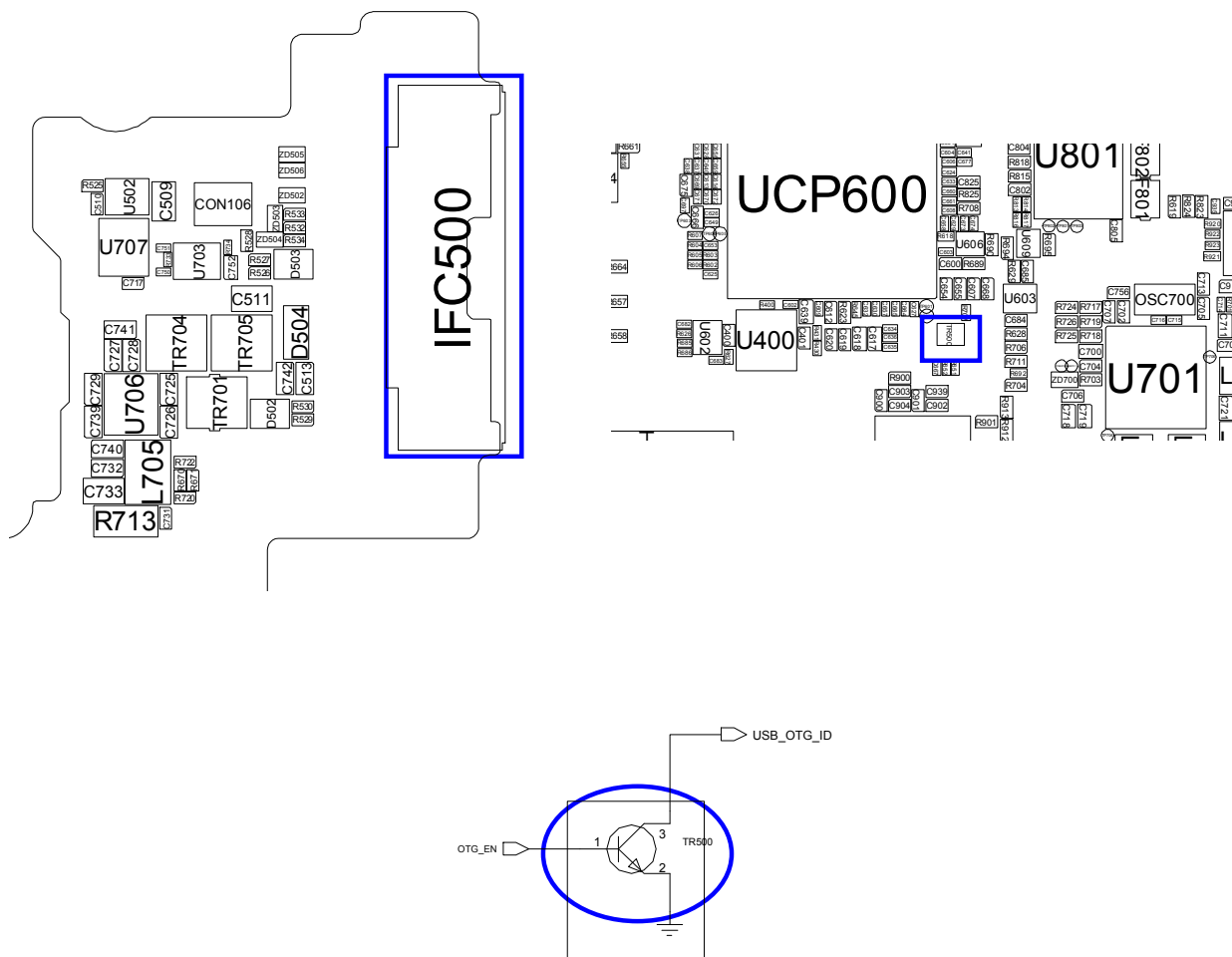
8-3-12. VGA CAM





8-3-13. OTG





8-4. NC Point
-UCP600

[illegible]

-U607

